

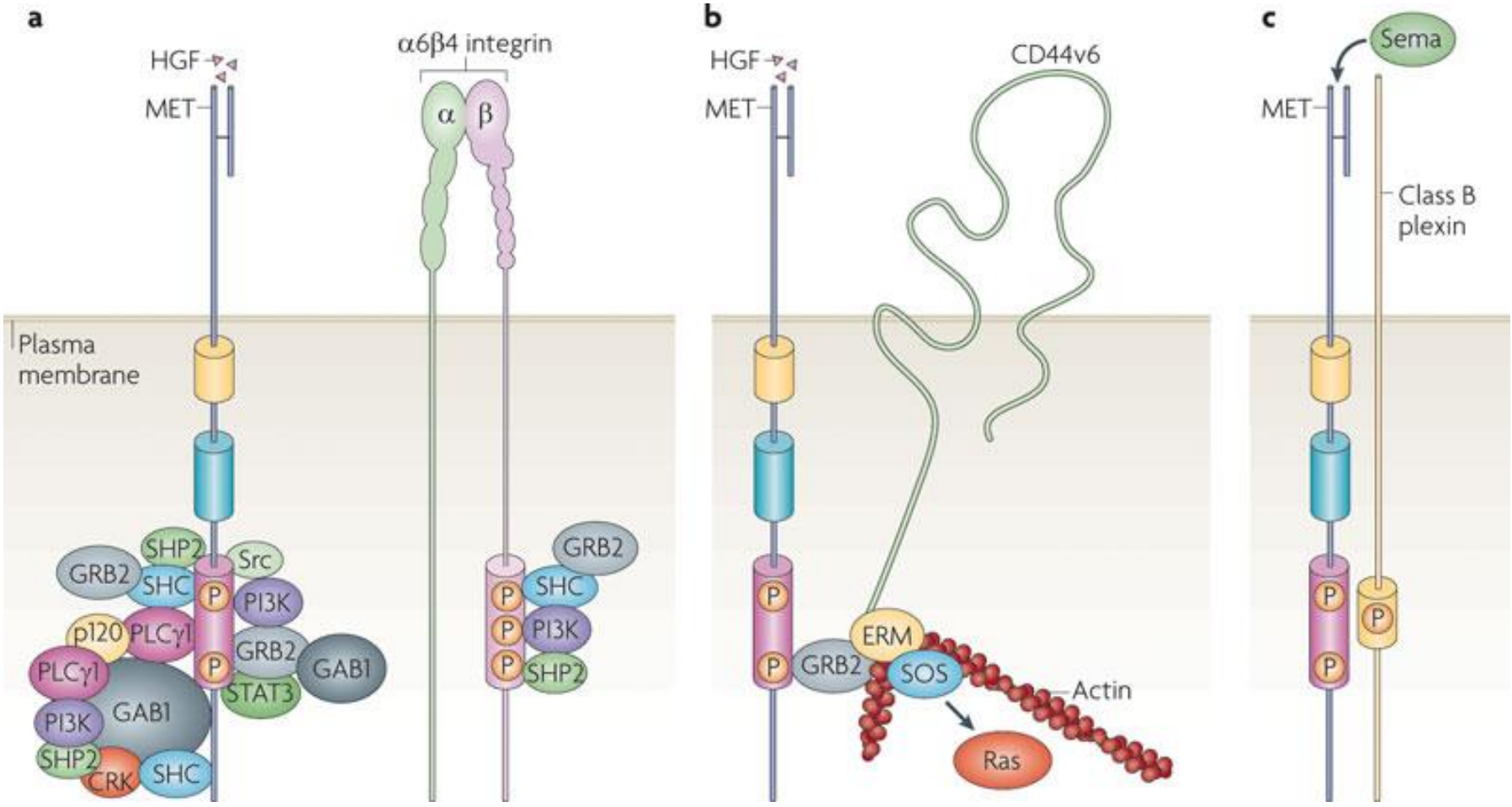


Exogenous HGF prevents cardiomyocytes from apoptosis after hypoxia via up-regulating cells autophagy

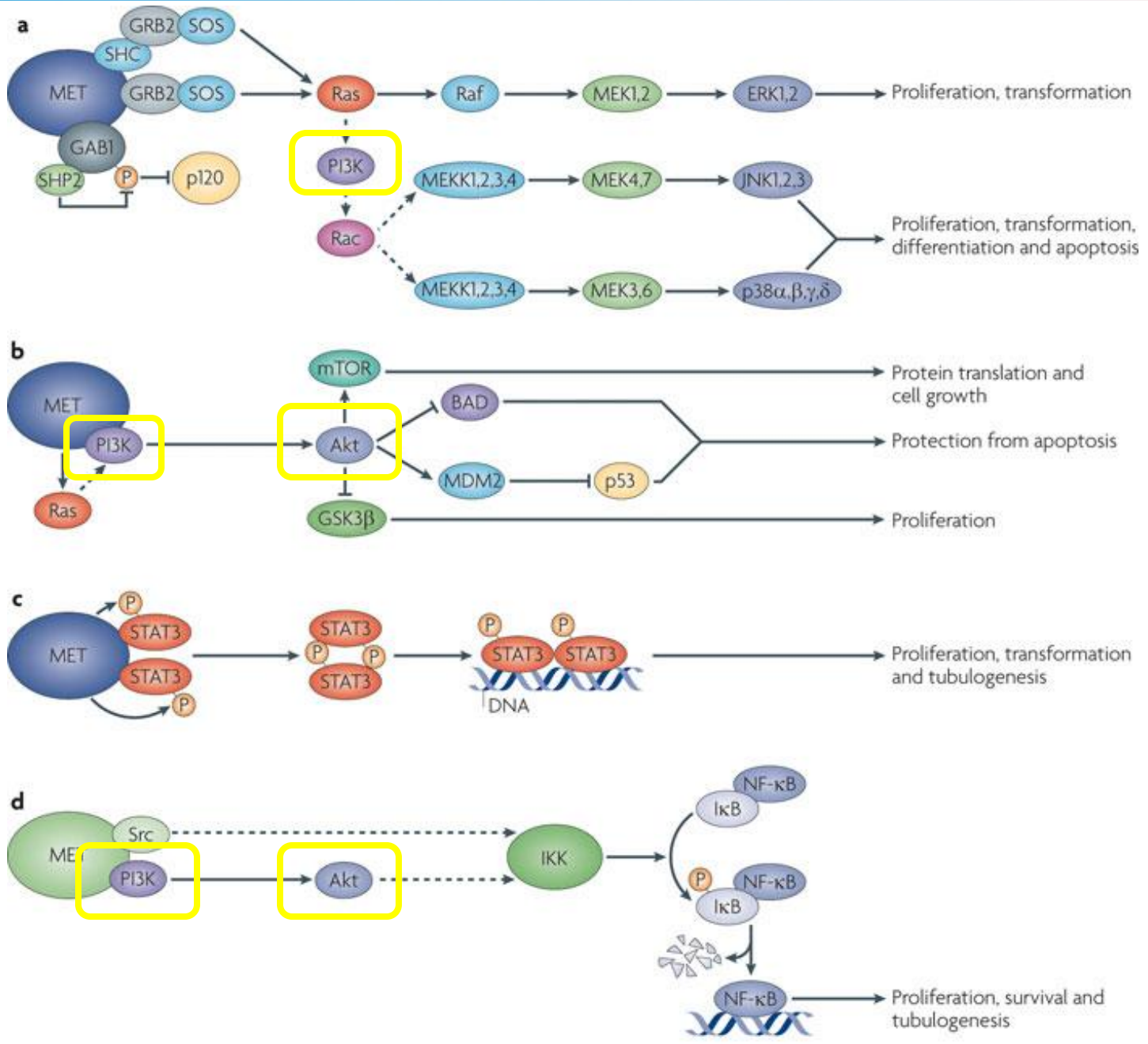
Yunle Wang, Zhijian Yang

Department of Cardiology, The First Affiliated
Hospital of Nanjing Medical University, Nanjing,
People's Republic of China

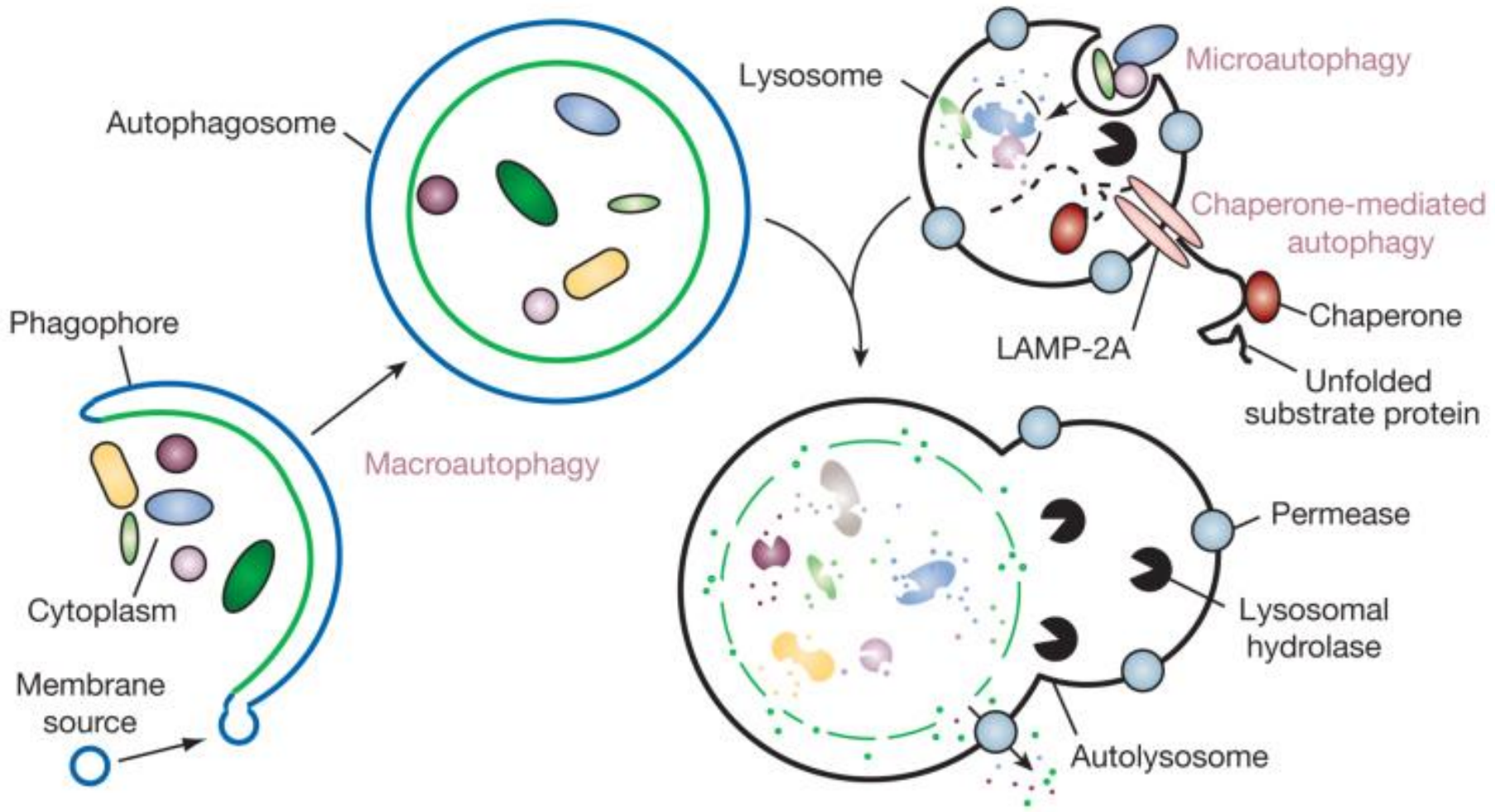
Introduction



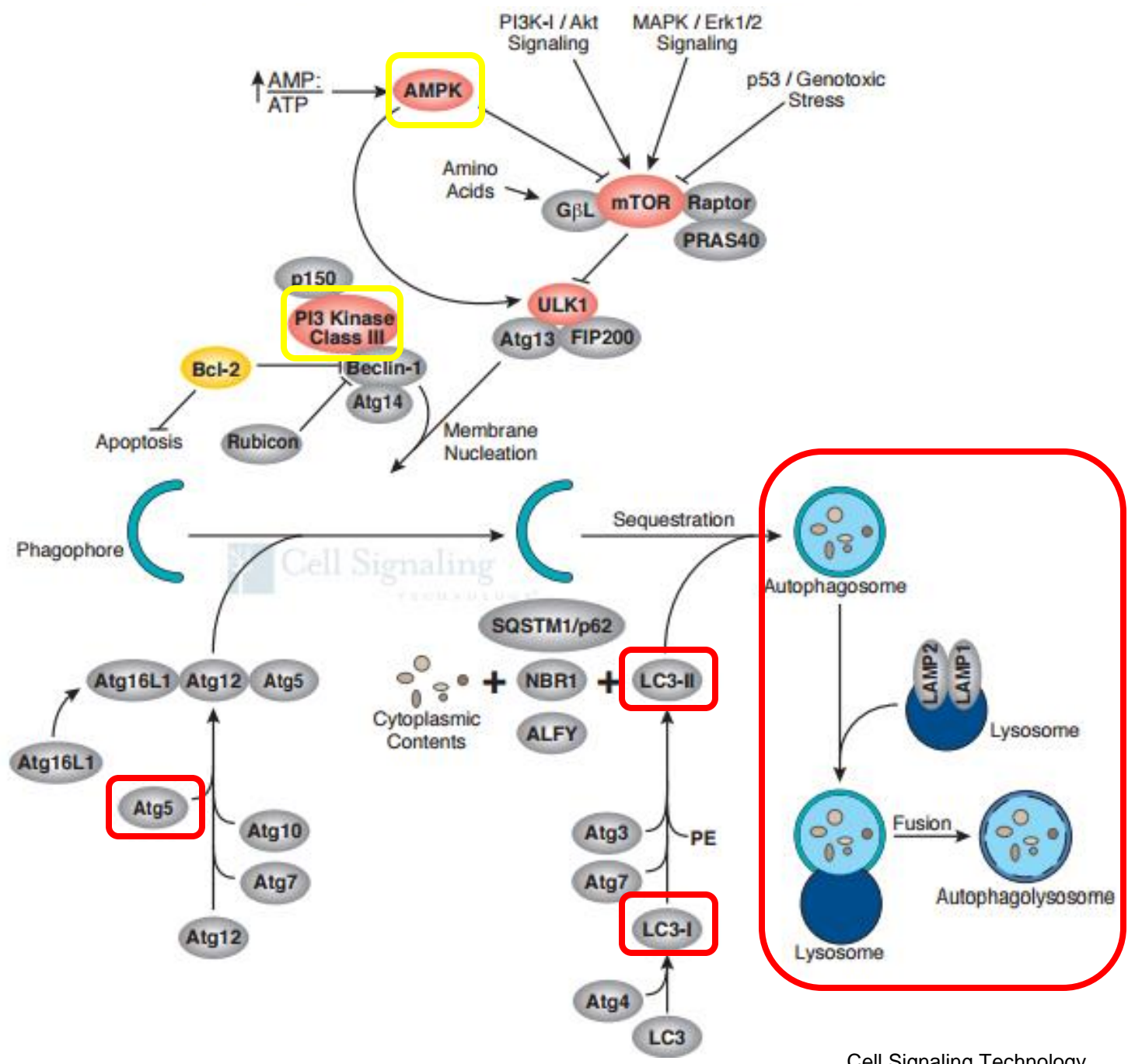
Introduction



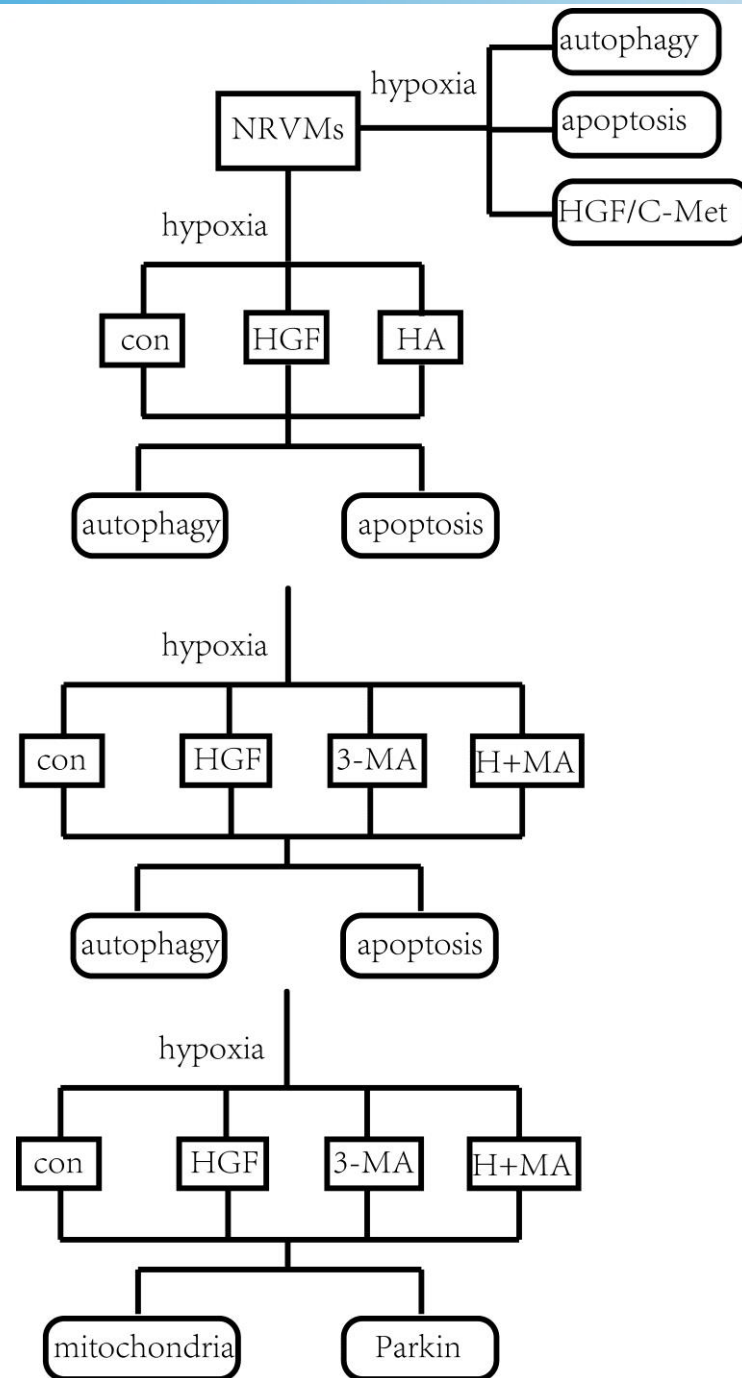
Introduction



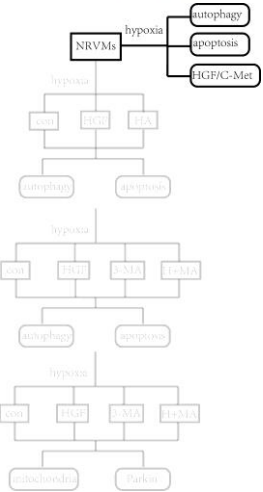
Introduction



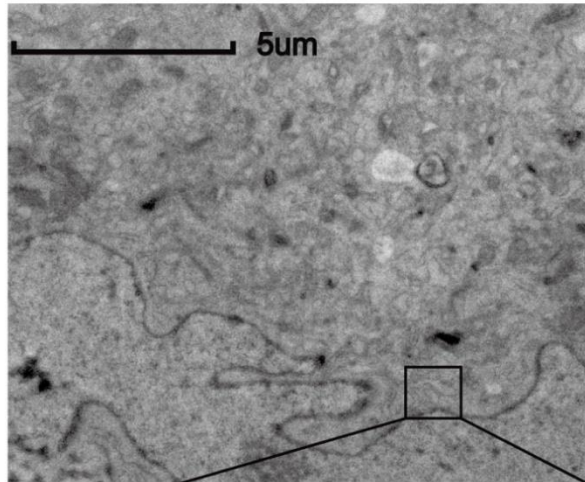
Procedure



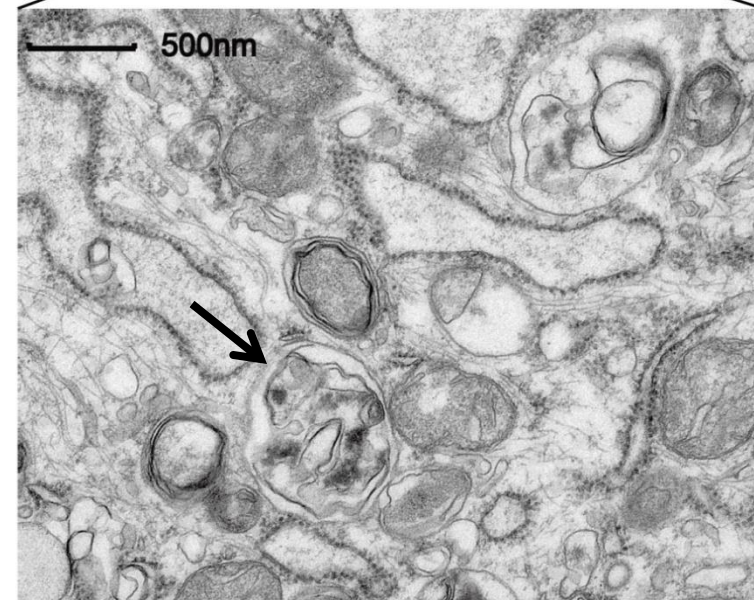
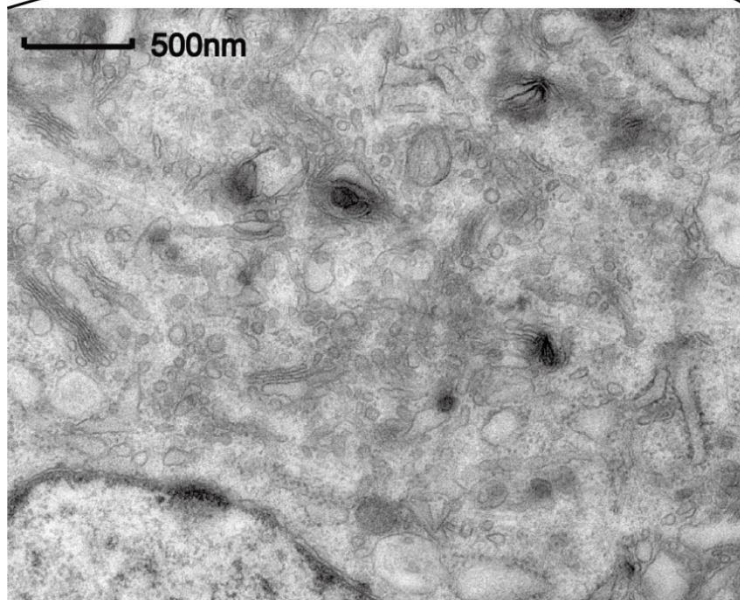
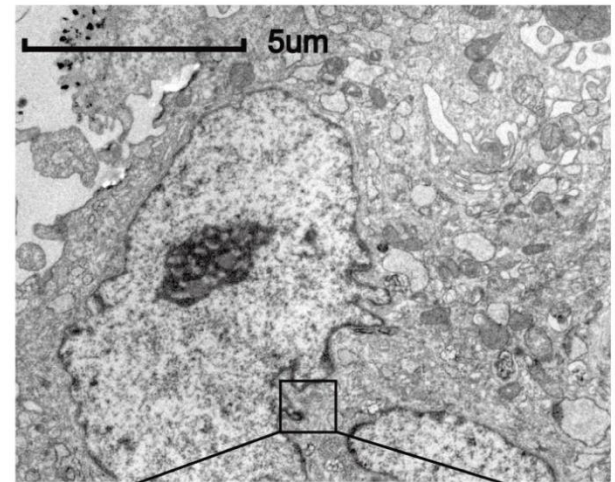
Results



con



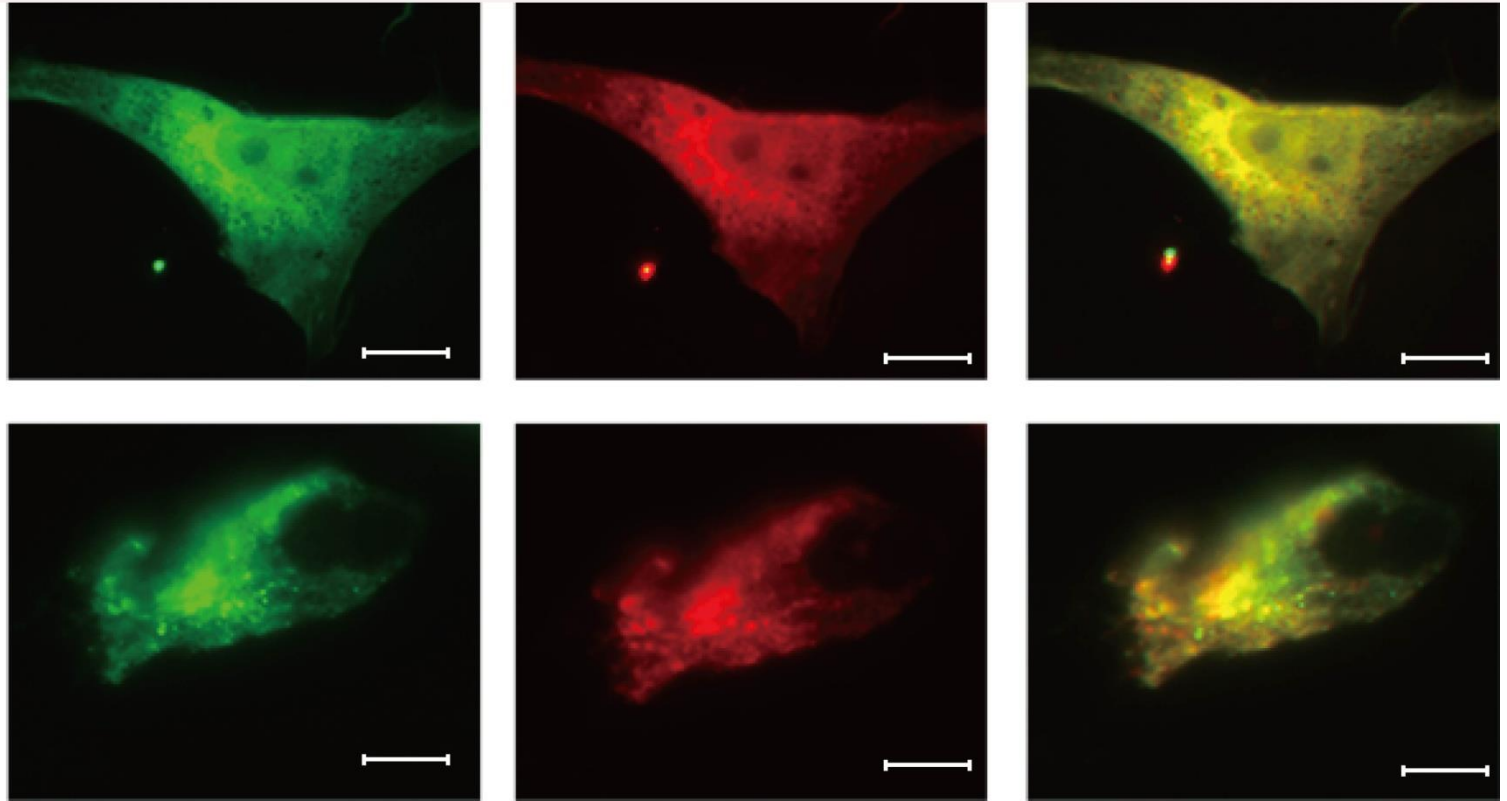
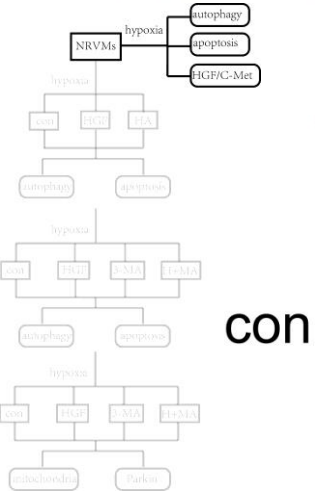
2H



Results of TEM determined the formation of autophagosome in cardiomyocytes at 2h of hypoxia.

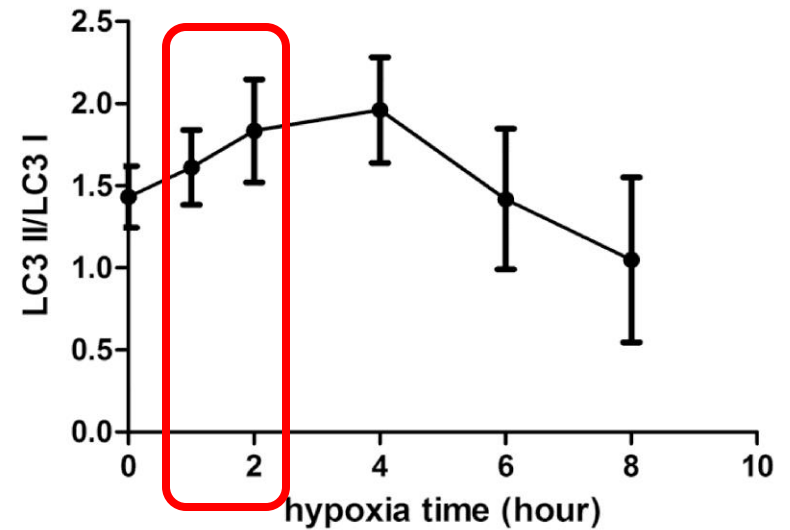
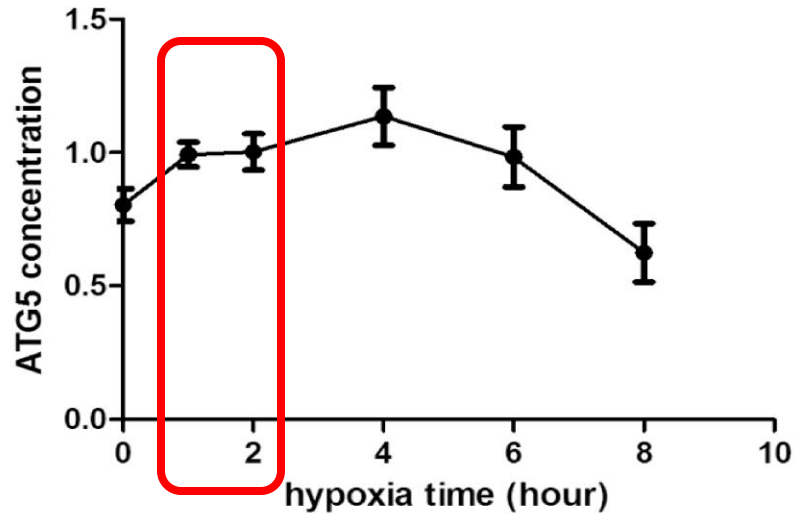
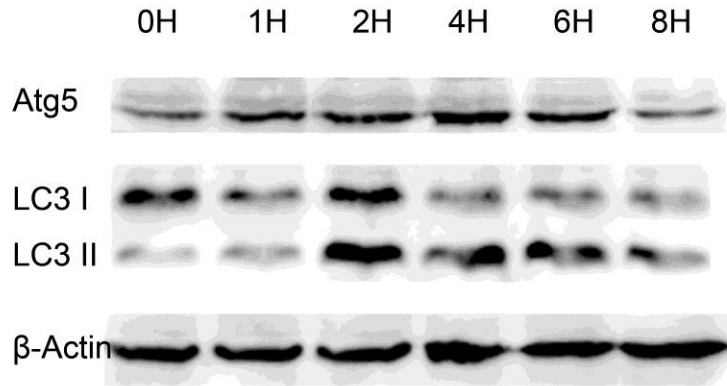
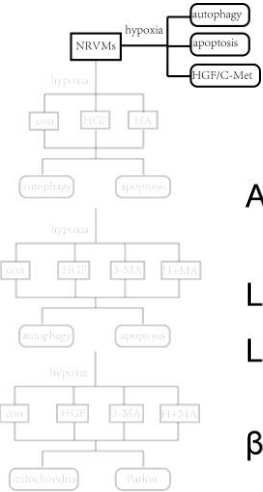
Results

(scale bar: 5µm)



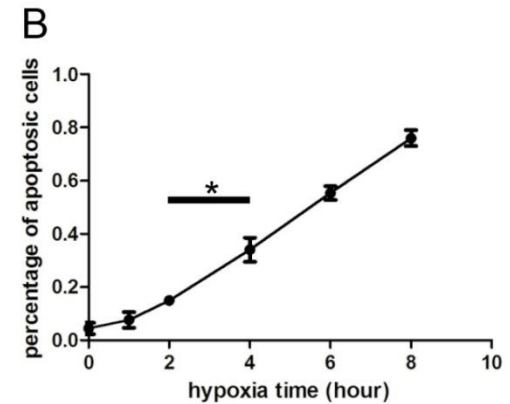
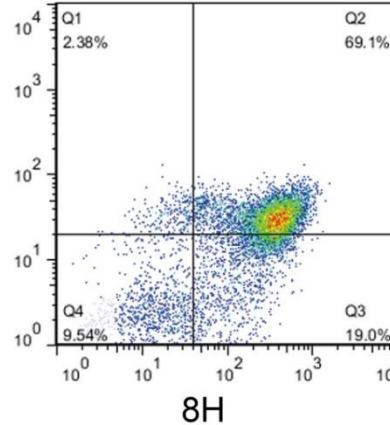
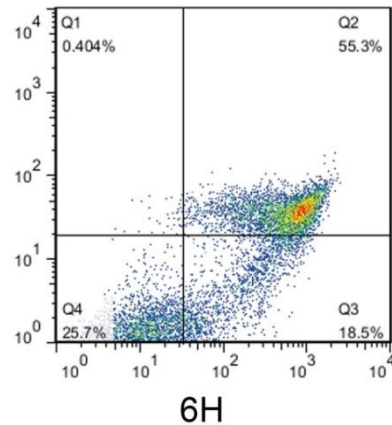
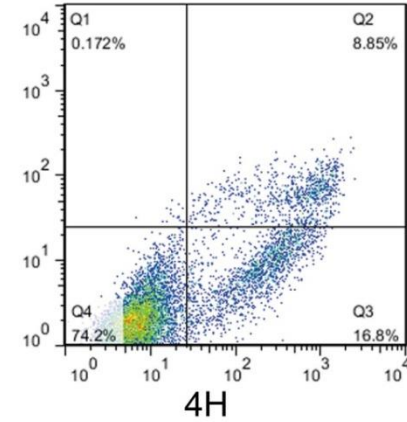
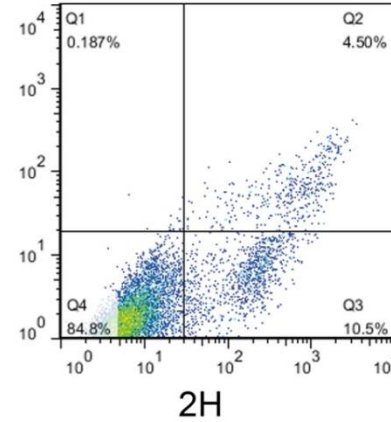
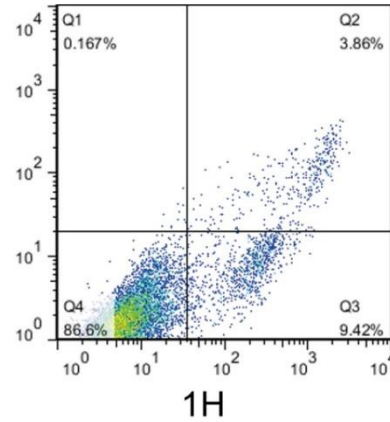
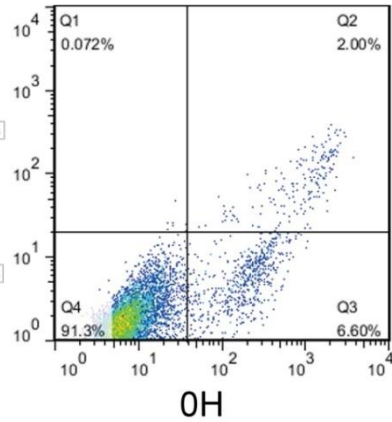
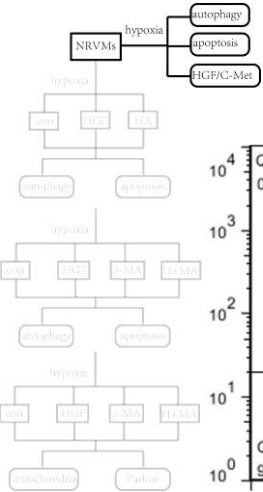
Results of mRFP-GFP-LC3 adenovirus infection indicated the formation of both autophagosome and autolysosome

Results



Results of WB in detecting the change of autophagy process in different time points of hypoxia

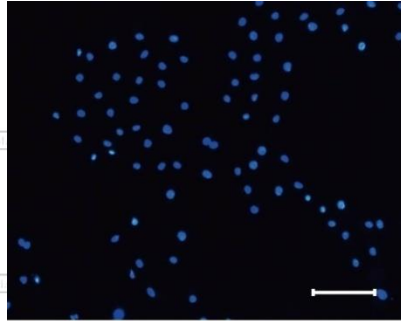
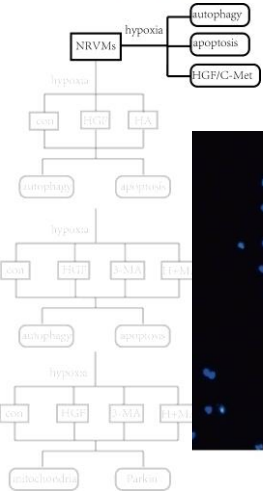
Results



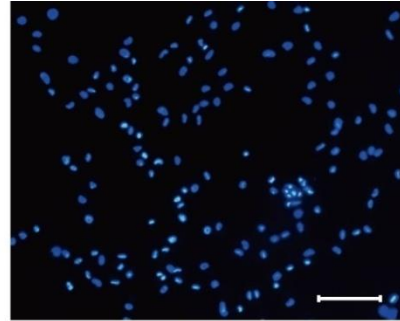
Results of Flow cytometry in detecting cell apoptosis at different time points after hypoxia

Results

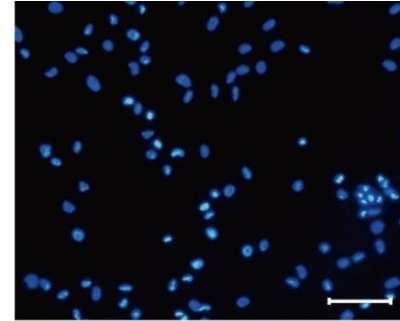
(scale bar: 100 μ m)



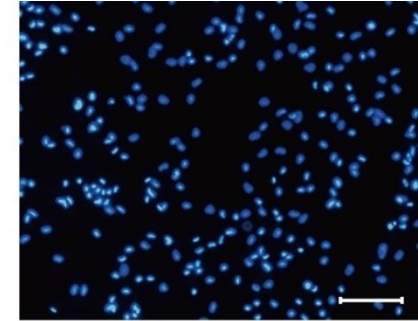
0H



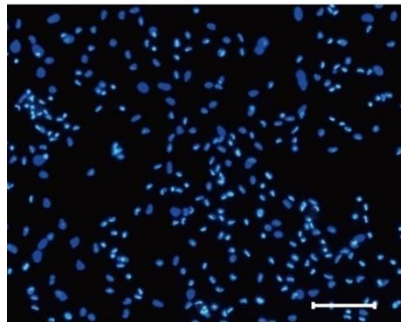
1H



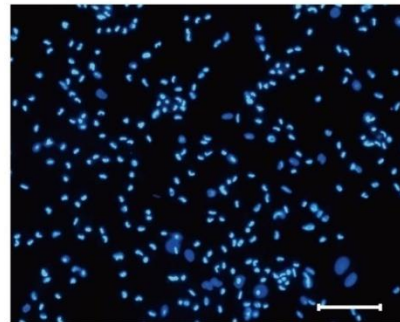
2H



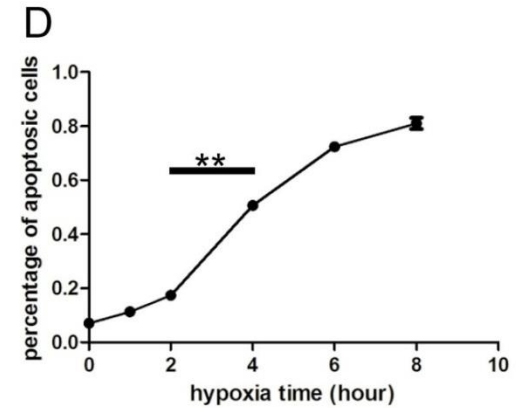
4H



6H

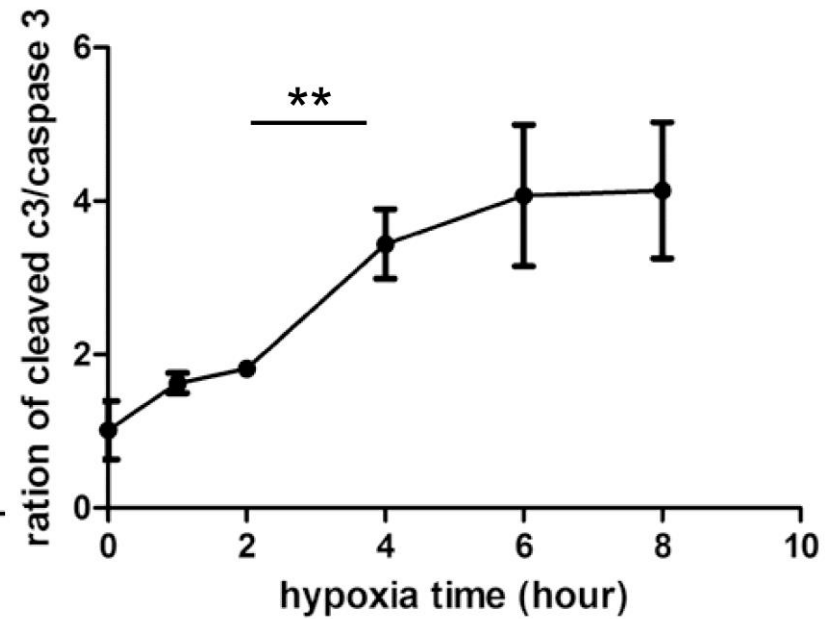
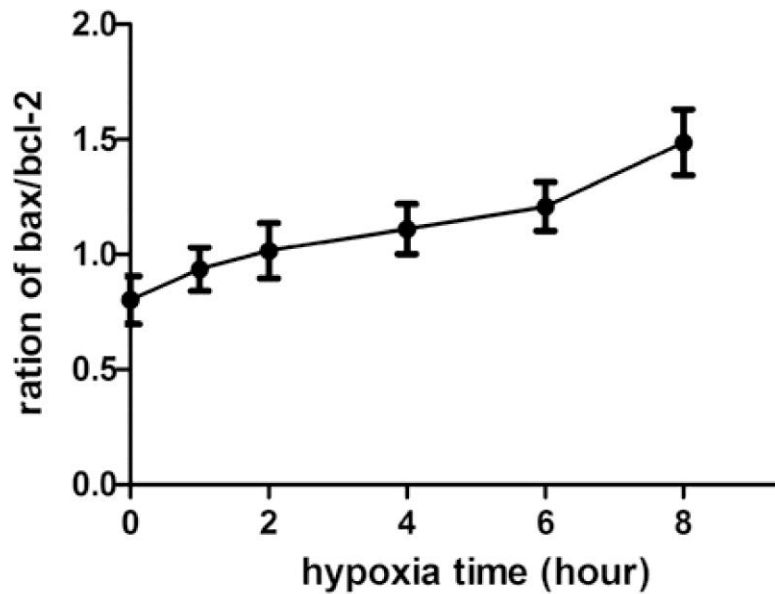
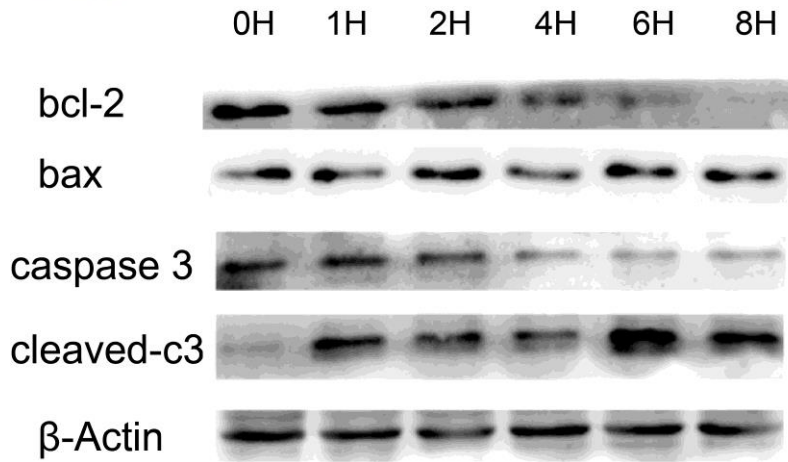
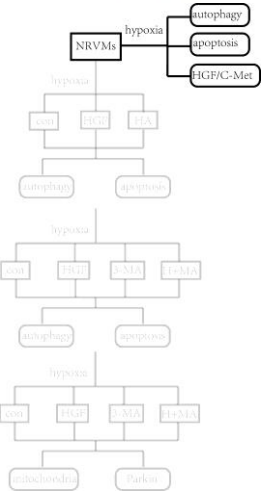


8H



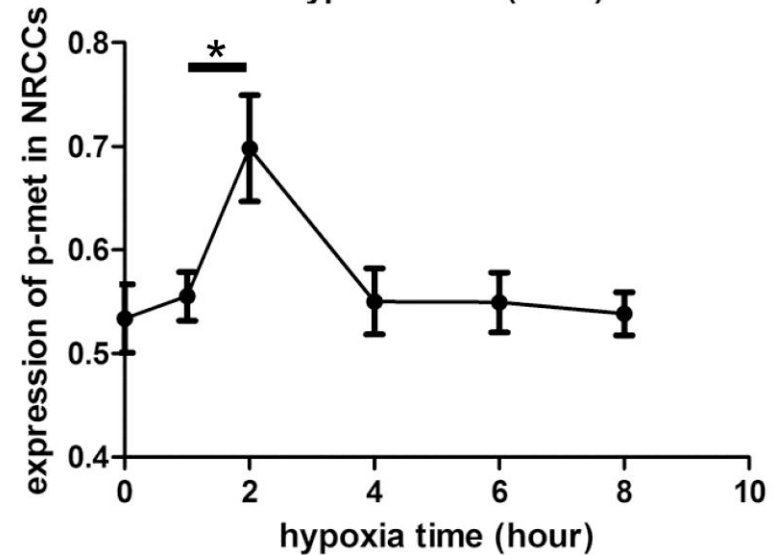
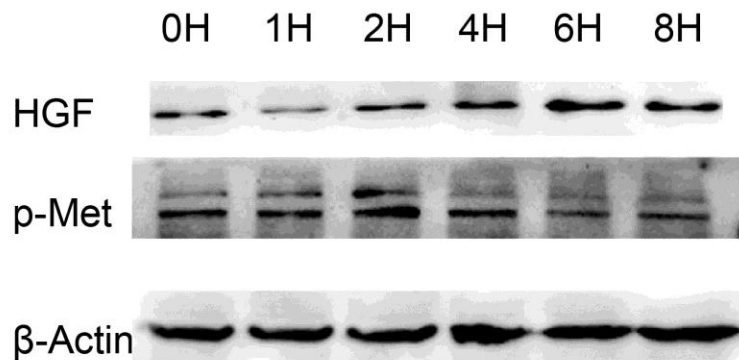
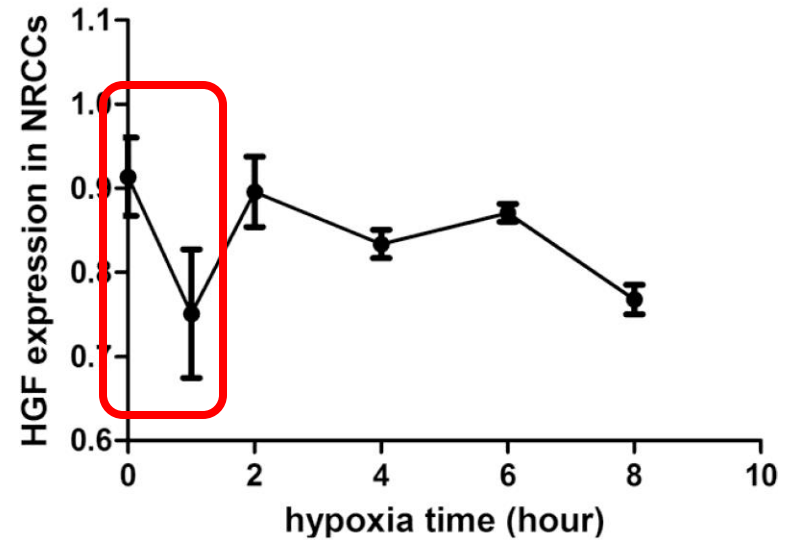
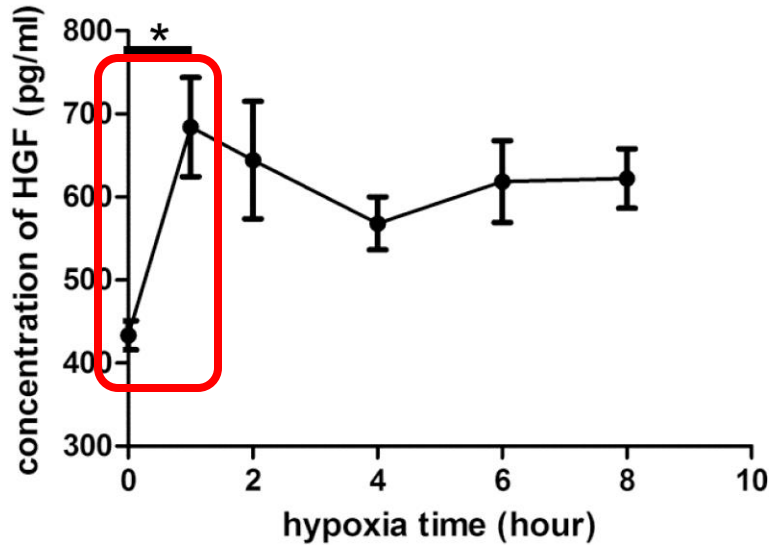
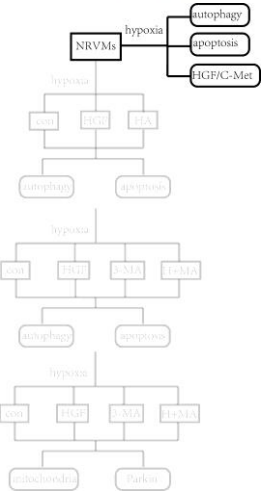
Results of Hoechst in detecting cell apoptosis at different time points after hypoxia

Results



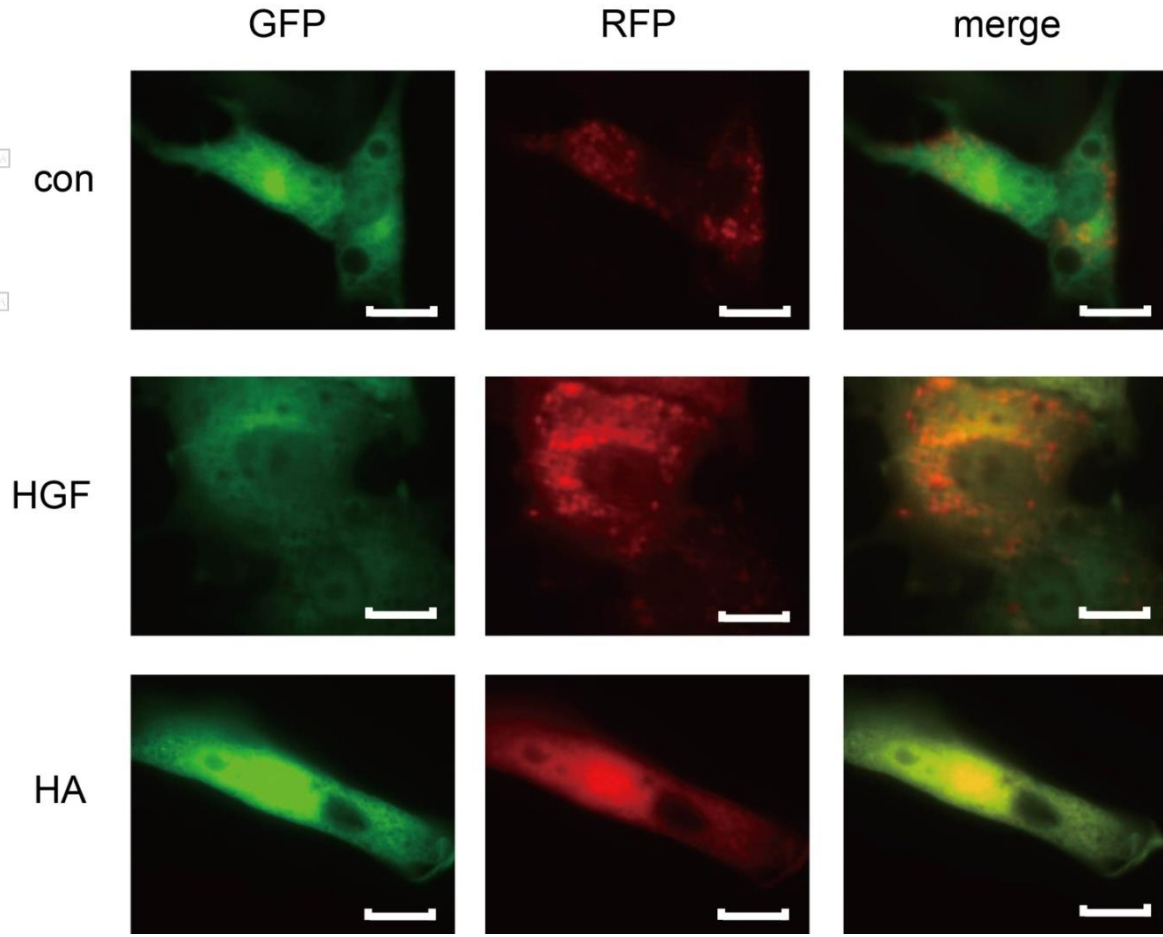
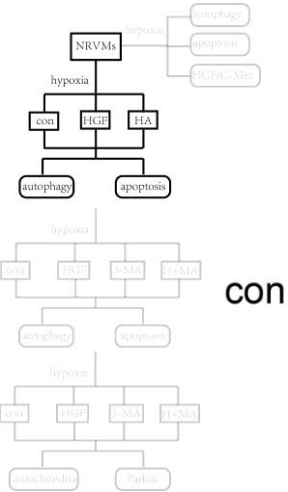
Results of WB in detecting cell apoptosis at different time points after hypoxia

Results

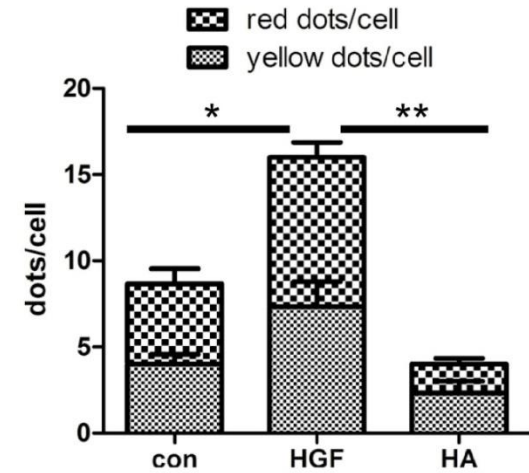


Results of Elisa and WB in detecting and the release of HGF and the expression of HGF and p-Met

Results

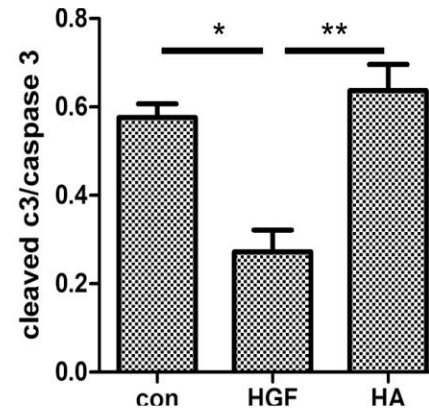
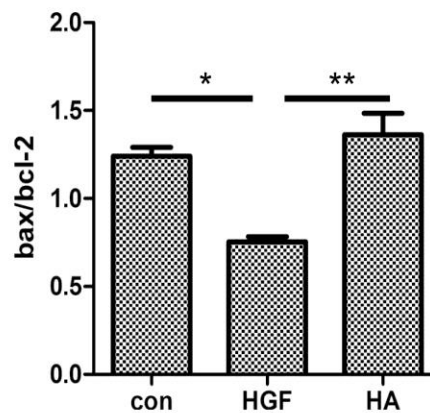
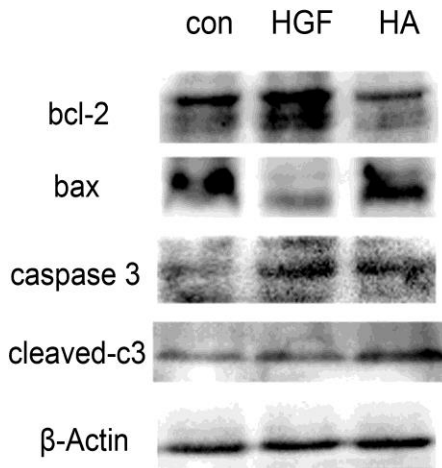
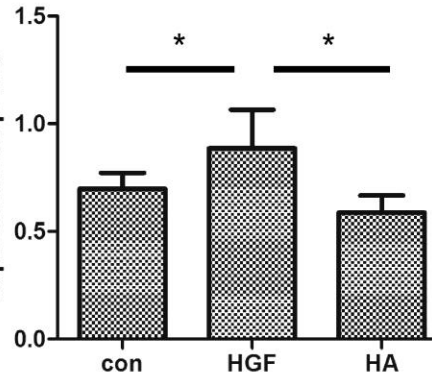
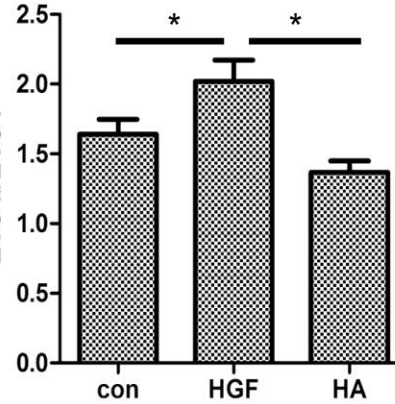
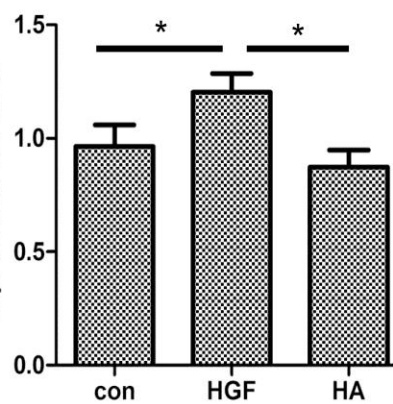
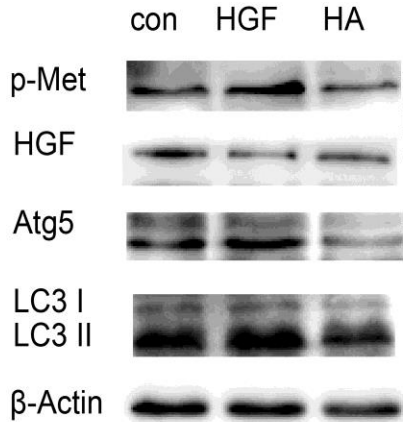
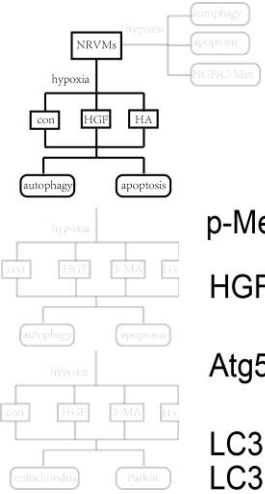


(scale bar: 5µm)



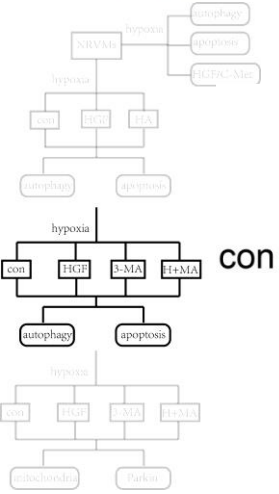
Results of mRFP-GFP-LC3 adenovirus infection in detecting autophagy between group con, HGF, HA

Results

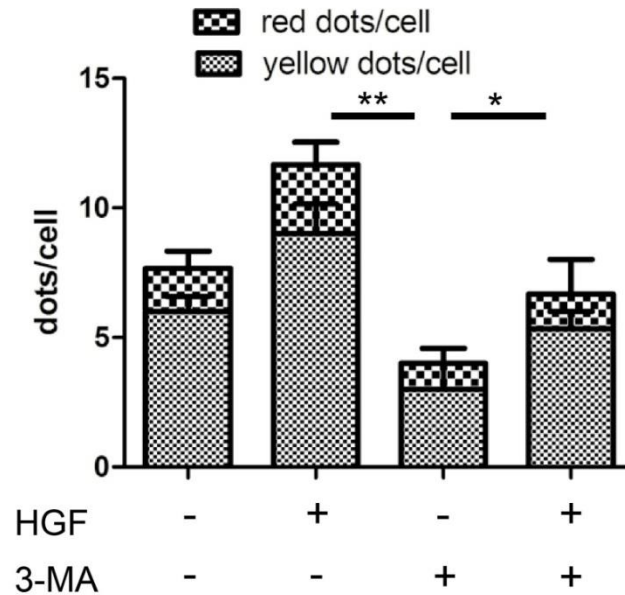
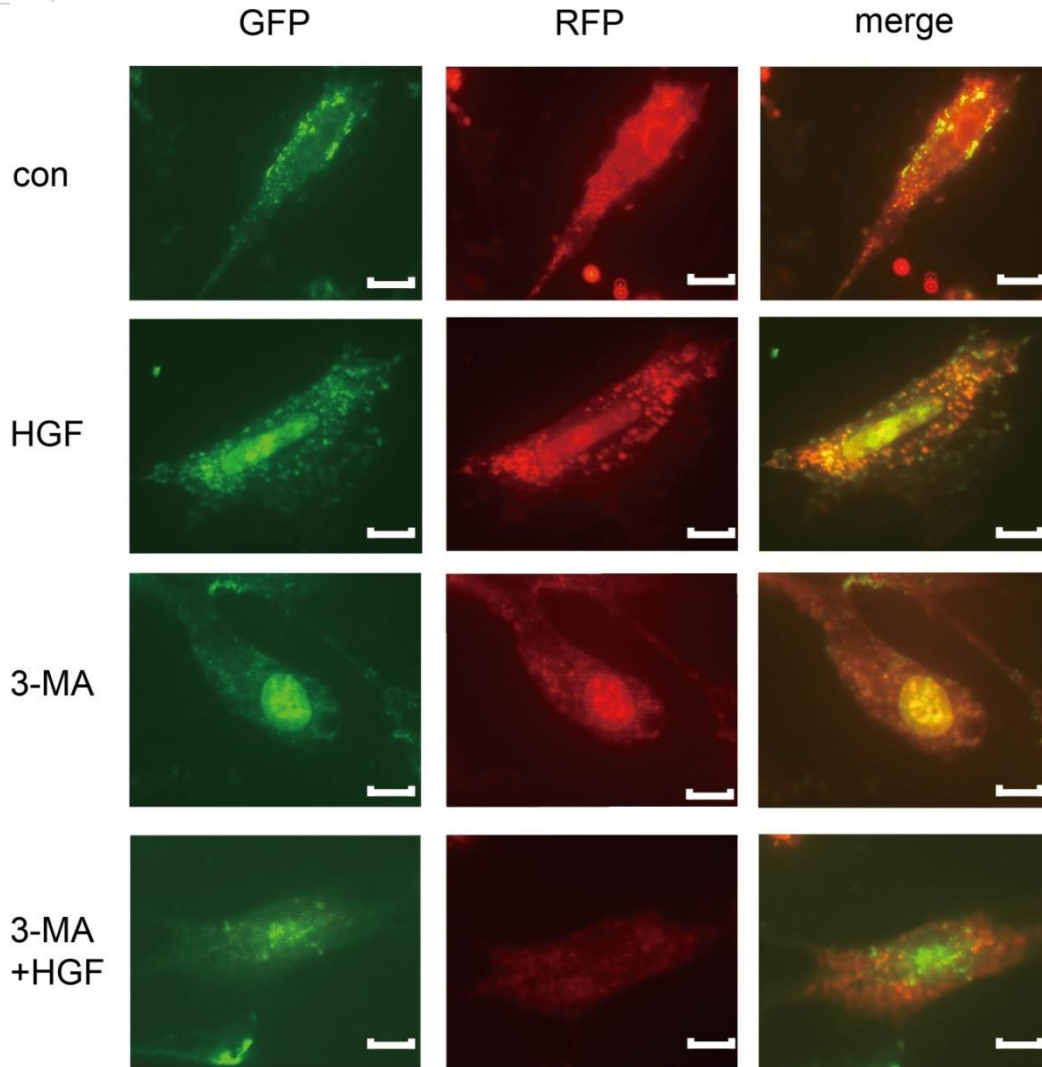


Results of WB in detecting autophagy and apoptosis between groups con, HGF and HA

Results

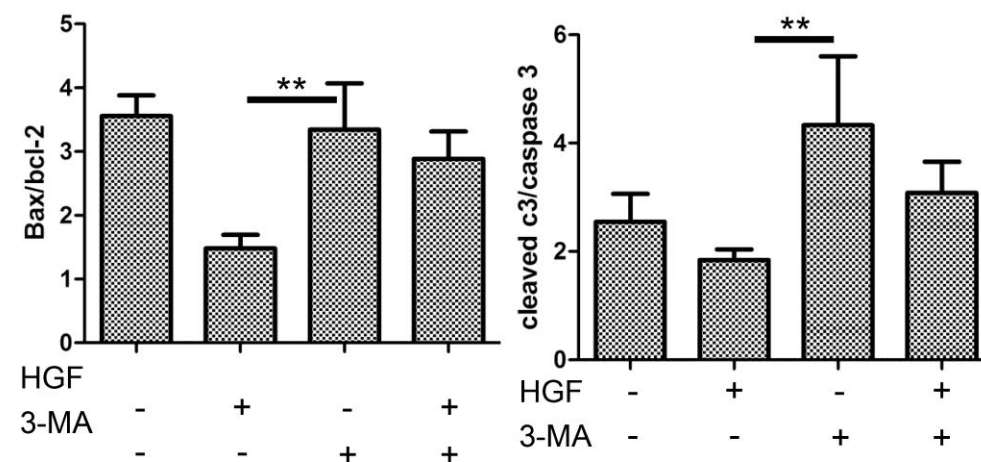
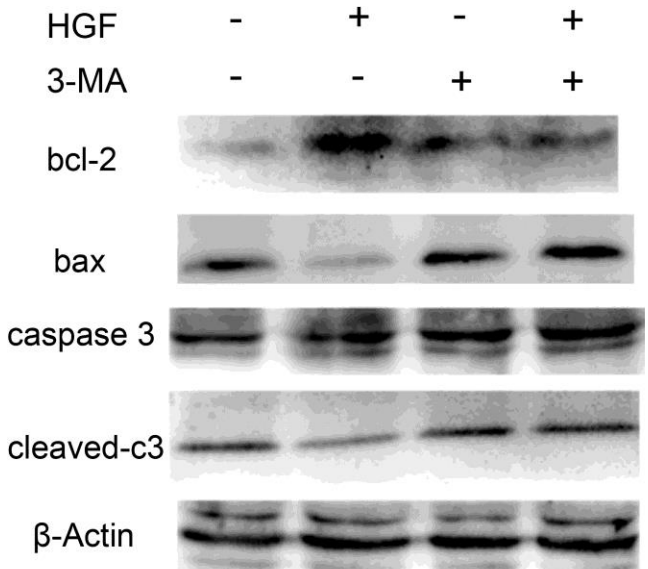
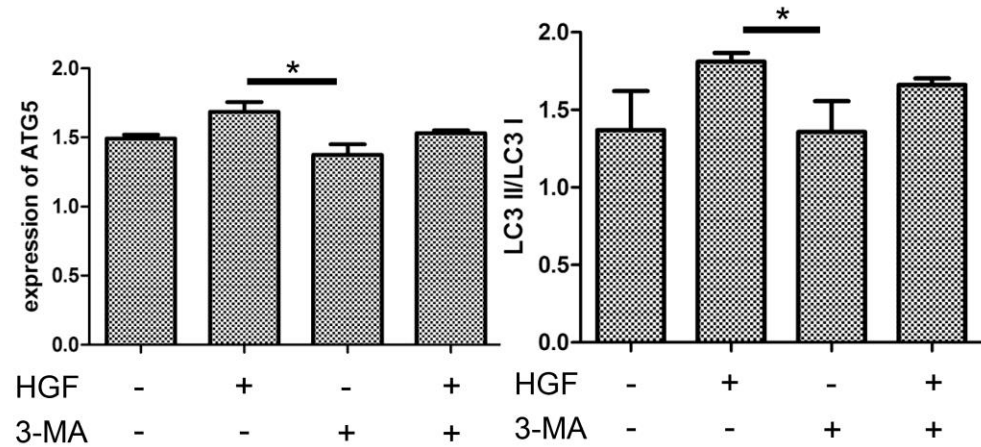
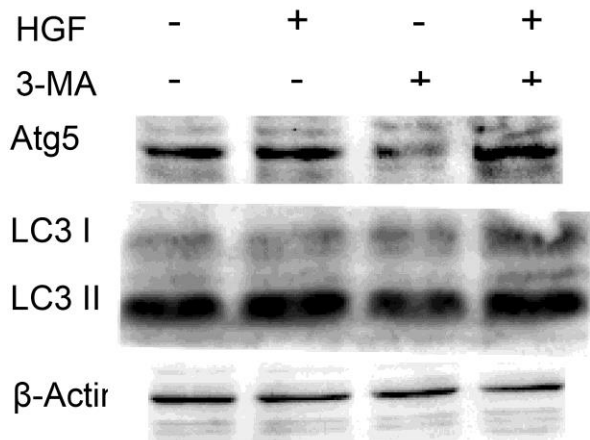
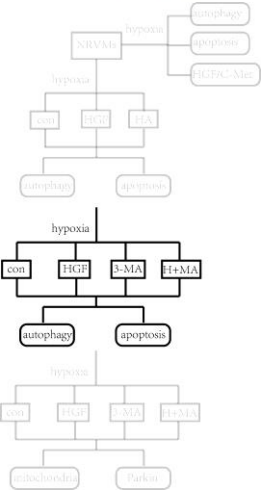


(scale bar: 5µm)



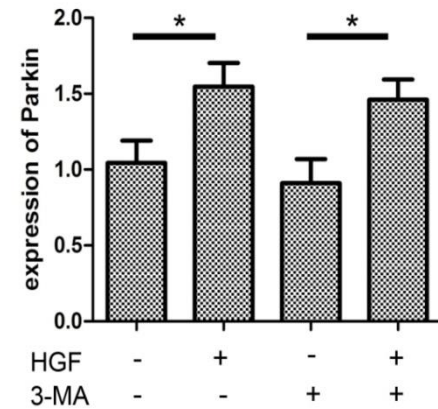
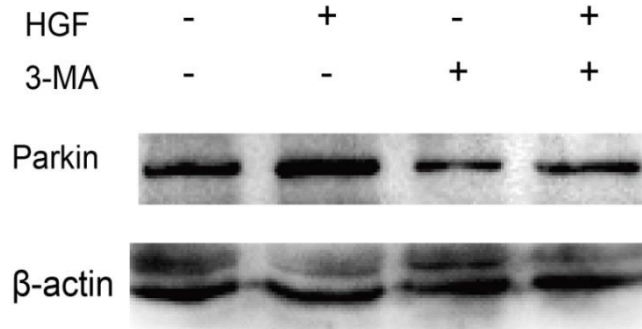
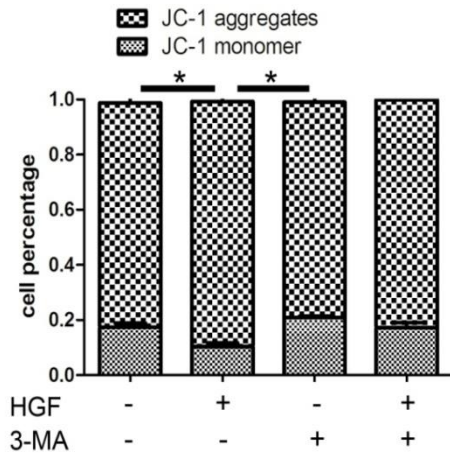
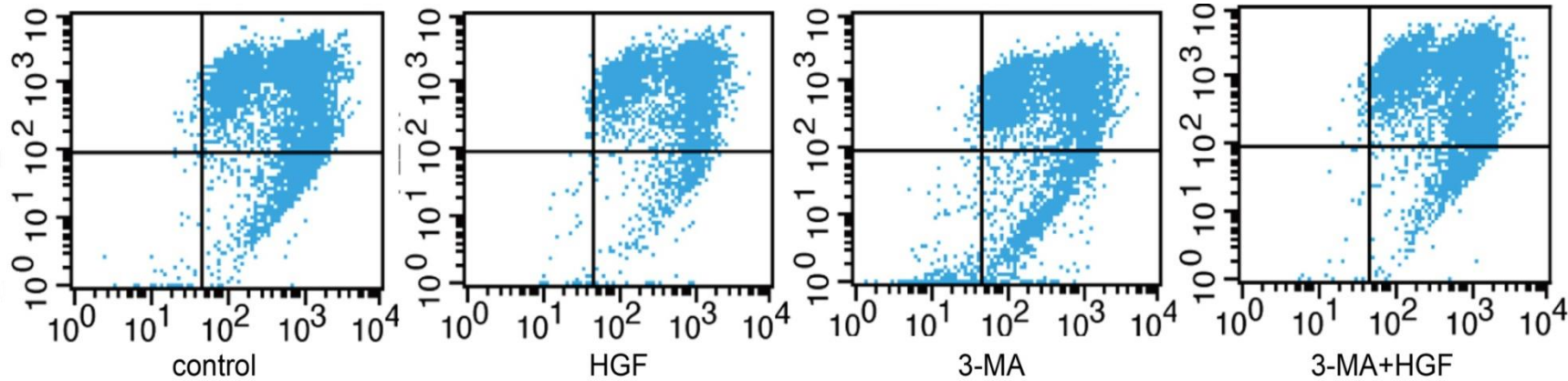
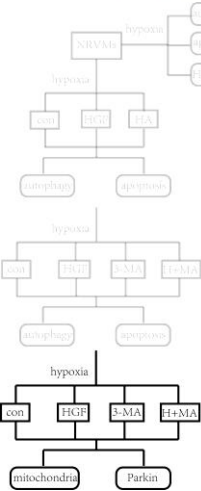
Results of mRFP-GFP-LC3 adenovirus infection in detecting autophagy between group con, HGF, 3-MA and combination.

Results



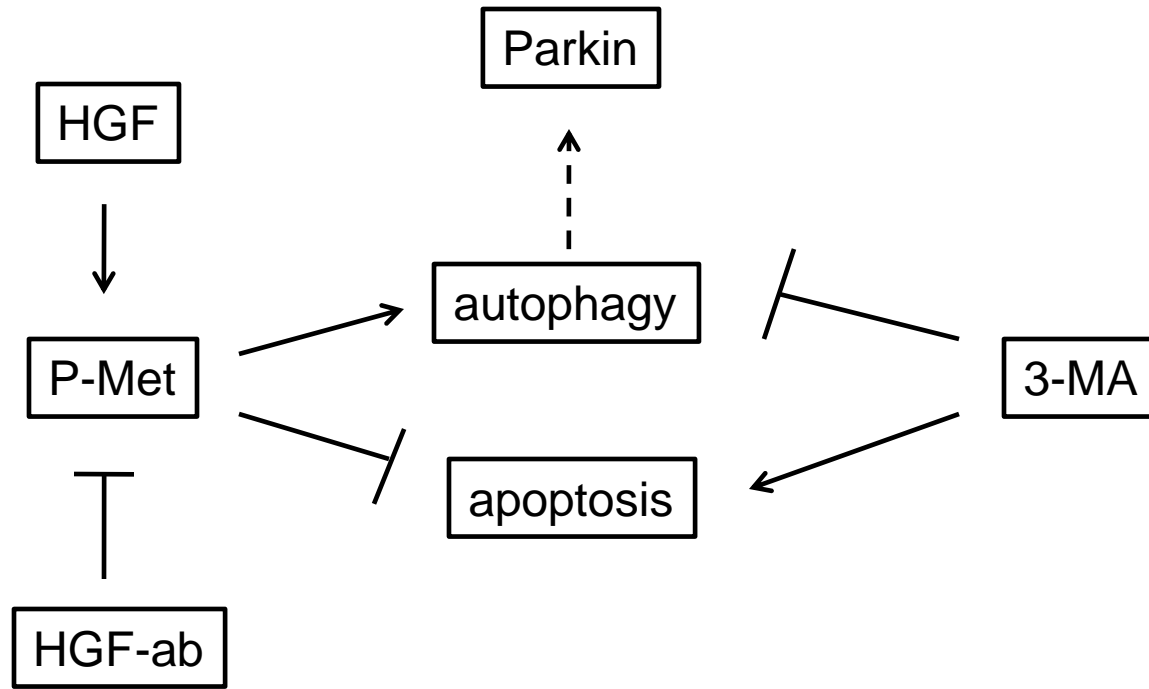
Results of WB in detecting autophagy and apoptosis between groups con, HGF, 3-MA and combination.

Results



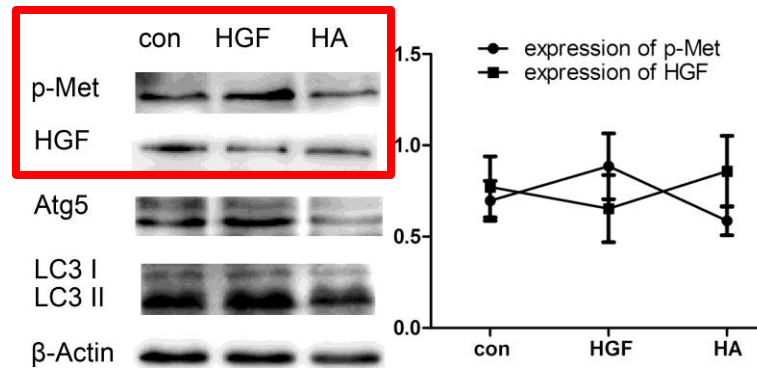
Results of JC1 and WB in detecting mitochondrial function and Parkin expression between groups con, HGF, 3-MA and combination.

Summary



Limitations

- The changes of HGF expression and p-Met were contrary between group control, HGF and HGF-ab.



- The transfer of Parkin from cytoplasm to mitochondrion was more important than the expression of Parkin.

THANK YOU!