



ATG13 Antibody

#24147

Catalog Number: 24147-1, 24147-2

Amount: 50µg/50µl, 100µg/100µl

Swiss-Prot No. : O75143

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized peptide derived from Human ATG13

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Specificity/Sensitivity: ATG13 antibody detects endogenous levels of total ATG13 protein

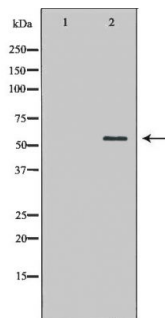
Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 57kd

WB: 1:500~1:2000

IHC: 1:50-200



Western blot analysis of extracts of various cell lines, using ATG13 antibody.

Background :

The autophagy-related protein 13 (Atg13) plays an important role in the formation of autophagosomes. Autophagosomes are formed in response to nutrient deprivation and function as the transport vesicles for organelles, proteins, and protein complexes targeted for lysosomes that digest these cargos to produce energy and nutrients. Atg13 is activated by the mTOR pathway and forms a complex with the FIP200 protein. This complex is involved in enhancing the activity of the ULK1 kinase which is required for the formation of autophagosomes. Atg13/FIP200 facilitates the localization of ULK1 to pre-autophagosomes, and subsequently stabilizes ULK1. Autophagy is an important process in development, growth, and cell differentiation, and disruption of this process may contribute to cancer, aging, and neurodegenerative diseases.