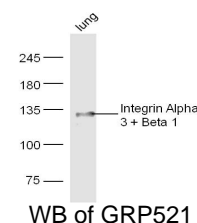


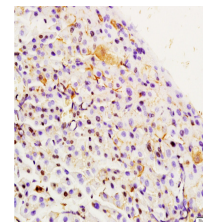
Product Datasheet

ATG1/ULK1 Polyclonal Antibody GRP521

| | |
|----------------------------|--|
| Description | Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. |
| Species/Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Conjugation | Unconjugated |
| Tested Applications | IHC-P, WB |
| Immunogen | KLH conjugated synthetic peptide derived from human ATG1/ULK1 (public_immunogen_range: 1004-1050/1050) |
| Form/Appearance | Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide. |
| Concentration | 1ug/ul |
| Storage | Store at -20°C for 12 months. |
| Note | For research use only. |
| Isotype | IgG |
| Clonality | Polyclonal |
| Purity | Purified by Protein A. |
| Uniprot ID | 075385 |
| Entrez | 8408 |
| Dilution Range | WB: 1:300-1000, IHC-P: 1:200-400 |



WB of GRP521



IHC-P of GRP521