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ITFG2/MDS028 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57233

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q969R8
Reactivity	Rat, Pig, Dog, Chimpanzee
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49313

Additional Information

Gene ID	55846
Other Names	KICSTOR complex protein ITFG2, Integrin-alpha FG-GAP repeat-containing protein 2 {ECO:0000312|HGNC:HGNC:30879}, ITFG2 (HGNC:30879)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ITFG2 (HGNC:30879)
Function	As part of the KICSTOR complex functions in the amino acid- sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose.
Cellular Location	Lysosome membrane. Note=Localization to lysosomes is amino acid-independent

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.