

MON2 Rabbit pAb

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Catalog # AP56805

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7Z3U7
Predicted	Rat, Dog, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	190359
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MON2
Epitope Specificity	1601-1700/1717
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MON2 is a 1,718 amino acid protein that exists as multiple alternatively spliced isoforms and plays an important role in membrane trafficking. Related to the guanine nucleotide exchange factors (GEFs), MON2 shares significant homology with BIG as well as the GBF (Golgi brefeldin A resistance factor) subfamilies of proteins. MON2 acts as a scaffold protein when associated with Dopey-1, a large cytoplasmic protein involved in trafficking between the late golgi and early endosomes. MON2 is homologous to the yeast protein and is encoded by a gene located on human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

Additional Information

Gene ID	23041
Other Names	Protein MON2 homolog, Protein SF21, MON2 {ECO:0000303 PubMed:30213940, ECO:0000312 HGNC:HGNC:29177}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	MON2 {ECO:0000303 PubMed:30213940, ECO:0000312 HGNC:HGNC:29177}
Function	Plays a role in regulating membrane trafficking of cargo proteins. Together with ATP9A and DOP1B, regulates SNX3 retromer- mediated endosomal sorting of WLS away from lysosomal degradation.
Cellular Location	Early endosome membrane

Background

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