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Pantophysin Rabbit pAb

Catalog # AP98828

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16563
Other Accession	Q16563
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28565
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Pantophysin
Epitope Specificity	121-220/259
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the synaptophysin/synaptobrevin family. Contains 1 MARVEL domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The MARVEL domain is a 130 amino acid motif that contains four transmembrane helices, both of which have cytoplasmic N- and C-terminal regions. MARVEL domain-containing proteins are thought to participate in tight junction regulation, the biogenesis of vesicular transport carriers and in cholesterol-rich membrane apposition events. Pantophysin, also known as SYPL1 (synaptophysin-like protein 1) or H-SP1, is a 259 amino acid multi-pass membrane protein that localizes to melanosomes and vesicles, as well as to the cytoplasm, and contains one MARVEL domain. Expressed as multiple alternatively spliced isoforms, pantophysin is present in tissues throughout the body where it may play a role in vesicle trafficking and protein transport. The gene encoding pantophysin maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

Additional Information

Gene ID	6856
Other Names	H-SP1; SYPL; D12Ertd446e; PanI; Pphn; SYPL1_HUMAN; SYPL1; Pantophysin; SYPL1_MOUSE; synaptophysin like 1; synaptophysin-like protein; synaptophysin-like 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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	SYPL1
Synonyms	SYPL
Cellular Location	Cytoplasmic vesicle membrane; Multi-pass membrane protein. Melanosome. Note=Cytoplasmic transport vesicles (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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