Data Sheet (Cat.No.TMAB-09967)

TargetMol

Anti-Pantophysin Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 29 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Tissue/cell: mouse colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-Pantophysin Polyclonal Antibody, Unconjugated (TMAB-09967) 1: 200, overnight at 4℃, followed by conjugation to the secondary antibody and DAB staining
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Pantophysin
Antigen Species:	Human
Gene ID:	6856
Uniprot ID:	Q16563

Research Background

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481