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Rho-tag Rabbit pAb

Catalog # AP96548

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Predicted	Rat, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Bovine Rho tag
Epitope Specificity	MNGTEGPNFYVPFSNKTGVV
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 G-protein coupled receptor 1 family. Opsin subfamily.
Post-translational modifications	Phosphorylated on some or all of the serine and threonine residues present in the C-terminal region. Contains one covalently linked retinal chromophore.
DISEASE	Retinitis pigmentosa 4. Night blindness, congenital stationary, autosomal dominant 1
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Well-characterized antibodies for epitope tags consisting of short sequences are widely used in the study of protein expression in various systems. The Rho-tag is an epitope tag consisting of a twenty-residue peptide, MNGTEGPNFYVPFSNKTGVV, which is derived from the first 20aa of bovine rhodopsin. Rho-tag can be used to boost expression levels of some eukaryotic membrane protein.

Additional Information

Other Names	CSNBAD1; OPN2; RP4; Noerg1; Ops; OPSD_HUMAN; RHO; Opsin-2; OPSD_MOUSE; OPSD_RAT; rhodopsin; retinitis pigmentosa 4, autosomal dominant; opsin 2, rod pigment
Dilution	WB=1:500-2000,ELISA=1:5000-10000,IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000,ICC/IF=1:100-500,Flow-Cyt=1ug/Test
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.
Name	Rho-tag Rabbit pAb
Function	Photoreceptor required for image-forming vision at low light intensity. Required for photoreceptor cell viability after birth. Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change

leading to G-protein activation and release of all-trans retinal.

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