10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EXPH5 Rabbit pAb

Catalog # AP97710

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9C0E2
Other Accession	Q9C0E2
Predicted	Rat, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	130139
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EXPH5
Epitope Specificity	1-100/1989
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 RabBD (Rab-binding) domain.
SUBUNIT	Interacts with RAB27A (By similarity).
DISEASE	Epidermolysis bullosa, non-specific, autosomal recessive (EBNS) [MIM:615028]: A skin disease characterized by blistering of skin and mucosae, following minimal pressure or trauma. Various clinical types with different severity are recognized, ranging from severe mutilating forms to mild forms with limited and localized scarring, and less frequent extracutaneous manifestations. EBNS clinical features mainly comprise trauma-induced scale crusts and intermittent skin blistering. Some of the crusted areas are hemorrhagic and accompanied by occasional bruising. Most lesions clear over several weeks to leave slightly atrophic scars and moderate post-inflammatory hyperpigmentation. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May act as Rab effector protein and play a role in vesicle trafficking.

Additional Information

Gene ID	64328
Other Names	EBS4; SLAC2-B; SLAC2B; XPO4_HUMAN; XPO4; Exp4; KIAA1721; exophilin 5; synaptotagmin-like homologue lacking C2 domains b
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	XPO4 {ECO:0000303|PubMed:26787900, ECO:0000312|HGNC:HGNC:17796}
Function	Mediates the nuclear export of proteins (cargos), such as EIF5A, SMAD3 and isoform M2 of PKM (PKM2) (PubMed:10944119, PubMed:16449645, PubMed:26787900). In the nucleus binds cooperatively to its cargo and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins (PubMed:10944119, PubMed:16449645). Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor (PubMed:10944119, PubMed:16449645). XPO4 then return to the nuclear compartment and mediate another round of transport (PubMed:10944119, PubMed:16449645). The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (PubMed:10944119, PubMed:16449645). Catalyzes the nuclear export of hypusinated EIF5A; a small cytoplasmic protein that enters nucleus and accumulates within nucleolus if not exported back by XPO4 (PubMed:10944119). Specifically mediates nuclear export of isoform M2 of PKM (PKM2) following PKM2 deacetylation by SIRT6 (PubMed:26787900). Also mediates the nuclear import of SOX transcription factors SRY and SOX2 (By similarity).
Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm.

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