

PROL1 Rabbit pAb

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Catalog # AP58001

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99935
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27217
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PROL1
Epitope Specificity	21-120/248
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the proline-rich protein family. The encoded protein has multiple proposed functions, including roles in pain suppression, penile erection, and protection of the eye surface. The QRFSR pentapeptide, known as opiorphin, is derived from the N-terminal of this protein. Opiorphin inhibits the enkephalin-inactivating peptidases neprilysin and aminopeptidase N, and this activity is thought to reduce sensitivity to painful stimuli by effecting enkephalin-related activation of opioid-dependent pathways. Opiorphin may also act as an anti-depressant. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014].

Additional Information

Gene ID	58503
Other Names	Opiorphin prepropeptide {ECO:0000312 HGNC:HGNC:17279}, Basic proline-rich lacrimal protein, Proline-rich protein 1, PRL1, Opiorphin, OPRPN (HGNC:17279), BPLP, PROL1
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	OPRPN (HGNC:17279)
Synonyms	BPLP, PROL1
Function	Opiorphin is an endogenous inhibitor of neprilysin and aminopeptidase N. Inhibits the breakdown of substance P, Mca-BK2 and Met-enkephalin by neprilysin in vitro with IC(50) values of 29 uM, 33 uM and 33 uM respectively. Inhibits the breakdown of Ala-pNA by aminopeptidase N in vitro with an IC(50) of 65 uM. Has a potent analgesic effect when administered to rats by intravenous injection.
Cellular Location	Secreted.
Tissue Location	Abundantly expressed in lacrimal gland where it found in the secretory endpieces. Also expressed at modest levels in the submandibular gland

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