



Rabbit Anti-PROL1 antibody

SL23389R

Product Name:	PROL1
Chinese Name:	碱性富含脯氨酸的泪蛋白抗体
Alias:	Basic proline rich lacrimal protein; BPLP; PRL1; Proline rich 1; Proline rich lacrimal 1; Proline rich protein 1; PROL1_HUMAN; Opiorphin prepropeptide; Basic proline-rich lacrimal protein; Proline-rich protein 1; Opiorphin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	25kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PROL1:21-120/248
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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].

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.

Subcellular Location:

Secreted.

Tissue Specificity:

Abundantly expressed in lacrimal gland where it found in the secretory endpieces. Also expressed at modest levels in the submandibular gland.

Similarity:

Belongs to the PROL1/PROL3 family.

SWISS:

Q99935

Gene ID:

58503

Database links:

[Entrez Gene: 58503](#)Human

[Omin: 608936](#)Human

[SwissProt: Q99935](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.