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LYNX1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57156

Specification

LYNX1 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P0DP58
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**12 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human LYNX1**
Epitope Specificity	**51-100/116**
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	**Cell membrane.**
SIMILARITY	**Contains 1 UPAR/Ly6 domain.**
SUBUNIT	**Isoform 2 interacts with nAChRs, including alpha4beta2 (CHRNA4/CHRNB2) and alpha7 (CHRNA7) By similarity. Competes with alpha-bungarotoxin for nAChR alpha7 binding. Isoform 3 may interact with heteropentameric nAChRs expressed by keratinocytes.**
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 Ly-6/neurotoxin gene family, a group of lymphocyte antigens that attach to the cell surface by a glycosylphosphatidylinositol anchor and have a unique structure showing conserved 8-10 cysteine residues with a characteristic spacing pattern. Functional analysis indicates that this protein is not a ligand or neurotransmitter but has the capacity to enhance nicotinic acetylcholine receptor function in the presence of acetylcholine. This gene may also play a role in the pathogenesis of psoriasis vulgaris. Alternatively spliced variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

LYNX1 Polyclonal Antibody - Additional Information

Gene ID 66004

Other Names
Ly-6/neurotoxin-like protein 1, Endogenous prototoxin LYNX1, Testicular tissue protein Li 112 {ECO:0000312|EMBL:AEE61023.1}, LYNX1 (<a

href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=29604" target="_blank">HGNC:29604)

Target/Specificity
Isoform 3 is expressed at highest levels in cervix and esophagus, followed by adult and fetal skin. Expressed at lower levels in brain, lung, stomach, small intestine, colon, rectum, uterus, and thymus. Not detected in spleen nor bone marrow. In the epidermis, predominantly produced by keratinocytes of the suprabasal epidermal compartment (at protein level). In attached gingiva, produced at highest levels by basal cells located in the lowermost epithelial layers (at protein level). Up-regulated 3-fold in psoriatic lesional skin. Detected in serum (at protein level).

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

LYNX1 Polyclonal Antibody - Protein Information

Name LYNX1 (HGNC:29604)

Function
Acts in different tissues through interaction to nicotinic acetylcholine receptors (nAChRs) (PubMed:21252236). The proposed role as modulator of nAChR activity seems to be dependent on the nAChR subtype and stoichiometry, and to involve an effect on nAChR trafficking and its cell surface expression, and on single channel properties of the nAChR inserted in the plasma membrane. Modulates functional properties of nicotinic acetylcholine receptors (nAChRs) to prevent excessive excitation, and hence neurodegeneration. Enhances desensitization by increasing both the rate and extent of desensitization of alpha-4:beta-2-containing nAChRs and slowing recovery from desensitization. Promotes large amplitude ACh-evoked currents through alpha-4:beta-2 nAChRs. Is involved in regulation of the nAChR pentameric assembly in the endoplasmic reticulum. Shifts stoichiometry from high sensitivity alpha-4(2):beta-2(3) to low sensitivity alpha-4(3):beta-2(2) nAChR (By similarity). In vitro modulates alpha-3:beta-4-containing nAChRs. Reduces cell surface expression of (alpha-3:beta-4)(2):beta-4 and (alpha-3:beta-4)(2):alpha- 5 nAChRs suggesting an interaction with nAChR alpha-3(-):(+)beta-4 subunit interfaces and an allosteric mode. Corresponding single channel effects characterized by decreased unitary conductance, altered burst proportions and enhanced desensitization/inactivation seem to depend on nAChR alpha:alpha subunit interfaces and are greater in (alpha-3:beta- 2)(2):alpha-3 when compared to (alpha-3:beta-2)(2):alpha-5 nAChRs (PubMed:28100642). Prevents plasticity in the primary visual cortex late in life (By similarity).

Cellular Location
Cell membrane; Lipid-anchor, GPI- anchor. Cell projection, dendrite {ECO:0000250|UniProtKB:P0DP60}. Endoplasmic reticulum {ECO:0000250|UniProtKB:P0DP60}. Note=Detected in Purkinje cells soma and proximal dendrites. {ECO:0000250|UniProtKB:P0DP60}

LYNX1 Polyclonal Antibody - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LYNX1 Polyclonal Antibody - Images