

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LYPD1 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human LYPD3 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LYPD1 Cys54-Ser116 Accession # Q8N2G4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

LYPD1 (Ly6/PLAUR-domain containing protein 1; also Lynx2 and PHTS) is a 15-20 kDa member of the Ly6 family of GPI-anchored proteins. It is expressed on postmitotic neurons in multiple locations, performing multiple functions. Two suggested functions include the ability to 1) block cell proliferation, and 2) bind to acetylcholine receptors, promoting their desensitization. Human LYPD1 preproprecursor is 141 amino acids (aa) in length. It contains a signal sequence (aa 1-20), a 97 aa mature region (aa 21-117), and a cleavable prodomain that, when cleaved, generates a GPI-linked form (aa 118-141). The mature molecule contains one Ly6 domain (aa 25-107). There are multiple potential isoform variants. One possesses an alternative start site at Met53, a second contains a 21 aa substitution for aa 1-5, a third shows a 21 aa substitution for aa 64-141, and a fourth possesses a 29 aa substitution for aa 65-141. Over aa 54-116, human and mouse LYPD1 are identical in aa sequence.

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