

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lipocalin-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human Lipocalin-2.
Source	Monoclonal Mouse IgG _{2A} Clone # 223908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Lipocalin-1 His19-Asp176 Accession # P31025
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot 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

Lipocalin-1, also known as tear prealbumin or von Ebner's gland protein (VEGP), is encoded by the LCN1 gene (1 - 3). It is a member of the Lipocalin superfamily that binds many different classes of lipophilic chemicals (4). Lipocalin-1 contains three sequence motifs similar to the cystatins, a superfamily of cysteine protease inhibitors (5). In fact, it has been suggested that Lipocalin-1 is a physiological inhibitor of cysteine proteases and plays a role in the control of inflammatory processes in oral and ocular tissues (5). rhLipocalin-1 corresponds to the mature and secreted protein. It is a weak inhibitor of cysteine proteases such as cathepsin V, which is similar to rhCystatin S (R&D Systems, Catalog # 1296-PI).

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