

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LRMP in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LRMP Gln143-Pro292 Accession # AAI26418
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

LRMP (Lymphoid restricted membrane protein; also JAW1) is a 74-76 kDa protein that is associated with the ER. In contrast to its name, LRMP expression is not restricted to lymphoid cell types. Cells known to express LRMP include stomach chief cells, seminal vesicle cuboidal epithelium, neurons, germinal center B cells, cortical thymocytes, and cells of the taste buds. LRMP is suggested to participate in intracellular peptide transport. It is also reported to physically interact with IP3RP. Human LRMP is a 56 kDa (predicted), single-pass transmembrane (TM) protein that is 499 amino acids (aa) in length. It contains a 439 aa cytoplasmic region (aa 1-439), a 21 aa TM segment (aa 440-460) and a 39 aa luminal domain (aa 461-499) that is cleaved after Ala469 to generate a type IV TM protein. LRMP runs anomalously in SDS-Page, and the 75 kDa form may be linked to an isoform that utilizes a Leu start site 56 aa upstream of the start site for the 499 aa isoform. In this regard, a human isoform has been reported that is 62 kDa in size. Mature mouse LRMP is 509 aa in length (after cleavage) and runs at 65 kDa in SDS-PAGE. Over aa 143-292, human LRMP shares 93% aa identity with mouse LRMP.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.