

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SALM4/LRFN3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human SALM3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SALM4/LRFN3 Ser17-Met539 Accession # Q9BTN0
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.

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

Synaptic adhesion-like molecule 4 (SALM4; also leucine-rich repeat and fibronectin type-III domain-containing protein 3 (Lrnf3) is an approximately 90 kDa member of the Lrnf family of type I transmembrane glycoproteins (1). Human SALM4 is synthesized as a 628 amino acid (aa) precursor that contains a 16 aa signal sequence, a 523 aa extracellular domain (ECD), a 21 aa transmembrane region, and a 68 aa cytoplasmic region. The ECD consists of six leucine-rich repeats (LRR), an IgC2-like domain, and a fibronectin type-III domain, tandemly aligned in that order (1, 2). In addition, there are five potential sites for N-linked glycosylation. SALM4 and -5 lack a C-terminal intracellular PDZ binding domain, which is conserved among SALMs 1-3. Mature human SALM4 shares 96% aa sequence identity with mature mouse SALM4. Northern blot analysis showed that in mice, SALM4 is strongly expressed in the adult brain and is also present in the adult gastrointestinal tract and kidneys (1). It is distributed throughout the neuron, including the growth cone (3). In the developing mouse embryo, a temporal expression profile blot revealed a general increment of expression around E10.5, with weak expression detected before E10.5 (1). SALM4, like the other SALMs, promotes neurite outgrowth (3). Specifically, the SALMs modify total outgrowth and neurite branching (3).

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.