

DESCRIPTION

Species Reactivity	Human
Specificity	Detects the alternate form of human UNC13D in Western blots.
Source	Monoclonal Rabbit IgG Clone # 1222B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	KLH-coupled N-terminal human UNC13D peptide of an alternative isoform described in PMID:24842371 Accession # EAW89322
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.
Immunocytochemistry	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

UNC13D (also Munc13-4) is a 123 kDa cytoplasmic and peripheral membrane protein that is expressed at highest levels in hematopoietic tissues. UNC13D appears to play a role in vesicle maturation during exocytosis and its expression is obligatory for exocytosis of cytolytic granules from NK and T cells. A point mutation in intron 1 of UNC13D causes familial hemophagocytic lymphohistiocytosis type3, a rare autosomal recessive immune deficiency. The mutation disrupts transcription factor binding and prevents expression of an alternative isoform that is required for lymphocyte cytotoxicity. The conventional and alternative isoforms are identical from amino acid 40-1090 but have distinct N-terminal segments. It is unknown whether mice express the alternative isoform.

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.