

DESCRIPTION

Species Reactivity	Human
Specificity	Detects the conventional form of human UNC13D in Western blots.
Source	Monoclonal Rabbit IgG Clone # 1223A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	KLH-coupled N-terminal human UNC13D peptide Accession # Q70J99
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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 acids (aa) 40-1090 but have distinct N-terminal segments. Human and mouse have 75% aa sequence identity throughout the region used as the immunogen. It is unknown whether mice express the alternative isoform.

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