

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DIDO1 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 734823
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DIDO1 Met1-Ser117 Accession # Q9BTC0
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

DIDO1 (Death-inducer obliterator 1; also DIO-1, C20orf158 and DATF-1) is a 245 kDa (predicted) intracellular protein that belongs the DIO family of proteins. It is ubiquitous in expression, and apparently serves multiple functions, depending on its splice variant. The standard form is a nuclear protein that maintains the integrity of mitotic checkpoint protein BubR1. An absence of DIDO1 results in centrosome amplification and unequal chromatin segregation. The best known short form (an 83 kDa isoform in mouse), by contrast, induces apoptosis by promoting transcription of caspase 9. Human standard form DIDO1 is 2240 amino acid (aa) in length. It contains two NLSs (aa 165-193), one PHD-type Zn finger region (aa 270-320), a TFIIS domain (aa 670-790), an SPOC protein-interaction domain (aa 1057-1163), two Pro-rich segments (aa 1257-1286 and 1725-2034) and a C-terminal Arg-rich region (aa 2108-2214). There are least 23 utilized phosphorylation sites. Multiple splice forms exist. Variants are generated by short aa substitutions for aa 531-2240, 566-2240 and 1182-2240, possibly coupled to a 36 aa insertion after Pro387. Over aa 1-117, human DIDO1 shares 80% aa identity with mouse DIDO1.

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.