

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PDCD6 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) PDCD4 or rhPDCD5 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 722232
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PDCD6 Met1-Val189 Accession # O75340
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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

PDCD6 (Programmed cell death protein 6; also ALG-2 and apoptosis-linked gene 2 protein) is a 22 kDa member of the penta-EF hand protein family of molecules. It is ubiquitously expressed, and performs multiple functions. PDCD6 is contextually linked to apoptosis, proliferation, membrane fusion and vesicle trafficking. Human PDCD6 is 191 amino acids (aa) in length. Although it contains five EF-hand domains, only domains #1 and #3 are considered functional (aa 23-58 and 90-125). There is one splice form (ALG-2.1) that shows a deletion of Gly121Phe122. This form typically represents about 1/3 of total cellular PDCD6. PDCD6/ALG-2 will homodimerize, and heterodimerize with ALG-2.1. Notably, there are classes of cytosolic proteins that bind PDCD6, but not ALG-2.1, accounting for differences in function. Both human PDCD6 isoforms share 99% aa identity with their mouse counterparts.

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.