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PDCD6 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PDCD6.
Catalog # AT3246a

Product Information

Application	WB, IF, E
Primary Accession	O75340
Other Accession	BC012384
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B4
Calculated MW	21868

Additional Information

Gene ID	10016
Other Names	Programmed cell death protein 6, Apoptosis-linked gene 2 protein, Probable calcium-binding protein ALG-2, PDCD6, ALG2
Target/Specificity	PDCD6 (AAH12384, 92 a.a. ~ 191 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PDCD6 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

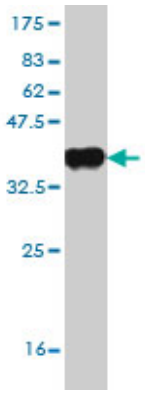
This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant.

References

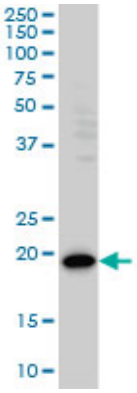
Identification of the penta-EF-hand protein ALG-2 as a Ca2+-dependent interactor of mucolipin-1.

Vergarajauregui S, et al. J Biol Chem, 2009 Dec 25. PMID 19864416.Penta-EF-hand protein ALG-2 functions as a Ca2+-dependent adaptor that bridges Alix and TSG101. Okumura M, et al. Biochem Biophys Res Commun, 2009 Aug 14. PMID 19520058.Crystallization and X-ray diffraction analysis of N-terminally truncated human ALG-2. Suzuki H, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2008 Nov 1. PMID 18997320.Identification of prognostic biomarkers in gastric cancer using endoscopic biopsy samples. Yamada Y, et al. Cancer Sci, 2008 Nov. PMID 18957060.Structural basis for Ca2+ -dependent formation of ALG-2/Alix peptide complex: Ca2+/EF3-driven arginine switch mechanism. Suzuki H, et al. Structure, 2008 Oct 8. PMID 18940611.

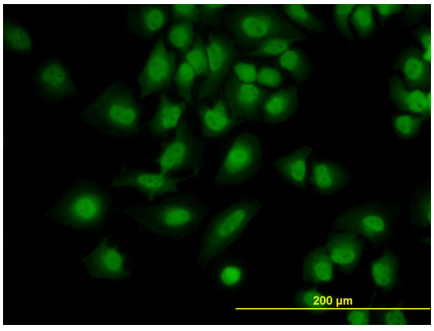
Images



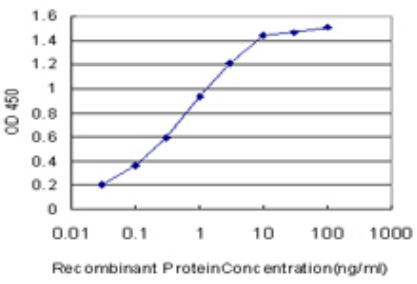
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



PDCD6 monoclonal antibody (M01), clone 2B4 Western Blot analysis of PDCD6 expression in HeLa ((Cat # AT3246a)



Immunofluorescence of monoclonal antibody to PDCD6 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged PDCD6 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.