

DESCRIPTION

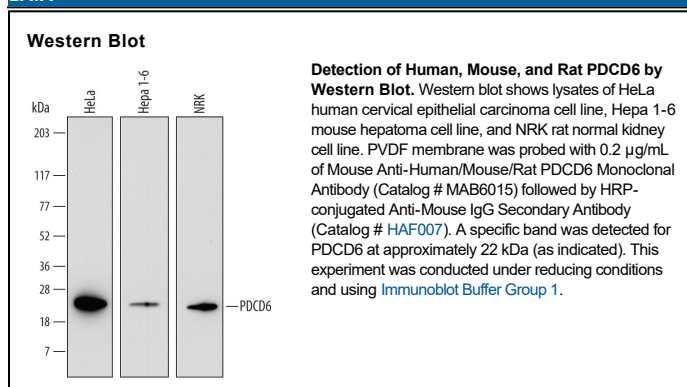
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PDCD6 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) PDCD4 or rhPDCD5 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 722232
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PDCD6 Met1-Val189 Accession # O75340
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.