

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PDCD in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PDCD6 Met1-Val189 Accession # AAI10292
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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