

Anti-Pdcd4 phospho S457 Monoclonal Antibody

Catalog Number: MP01105-1

About PDCD4

Programmed cell death 4 (Pdc4) is a novel tumor suppressor. Pdc4 directly inhibits the helicase activity of eukaryotic translation initiation factor 4A (eIF4A), a component of the translation initiation complex. Pdc4 also suppresses the transactivation of activator protein-1 (AP-1)-responsive promoters by c-Jun. Pdc4 contains two Akt phosphorylation sites, one at Ser67 and the other at Ser457. The phosphorylation of Pdc4 by Akt causes nuclear translocation of Pdc4 and a significant decrease in the ability of Pdc4 to interfere with the transactivation of AP-1-responsive promoters by c-Jun.

Overview

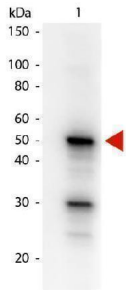
Product Name	Anti-Pdcd4 phospho S457 Monoclonal Antibody
Reactive Species	Human, Mouse, Rat, Xenopus
Description	Boster Bio Anti-Pdcd4 phospho S457 Monoclonal Antibody (Catalog # MP01105-1). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat, Xenopus.
Conjugate	Biotin
Application	ELISA, IP, WB
Clonality	Monoclonal Clone: 9G6
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, antibody formulated with stabilizing protein (10 mg/mL) - Immunoglobulin and Protease free, 0.01% (w/v) Sodium Azide This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store vial at 4°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship at ambient temperature.)
Host	Mouse
Uniprot ID	Q53EL6

Technical Details

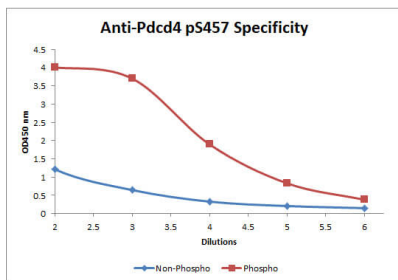
Immunogen	This monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding Ser457 of the human Pdc4 protein.
Predicted Reactive Species	Mouse, Rat

Isotype	IgG1 kappa
Form	Lyophilized
Concentration	0.5 mg/mL by UV absorbance at 280 nm
Purification	Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human Pdcd4 protein phosphorylated at Ser457. A BLAST analysis was used to suggest cross-reactivity with Pdcd4 from human, mouse, rat and Xenopus based on 100% homology with the immunizing sequence. Cross-reactivity with Pdcd4 from other sources has not been determined.
Suggested Dilutions	<p>ELISA: 1:20,000 - 1:100,000 IP: 1:1,000 - 1:5,000 WB: 1:2,000 - 1:10,000</p> <p>Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated has been tested by ELISA and western blotting and is suitable for immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 62 kDa in size corresponding to phosphorylated Pdcd4 protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human Pdcd4 pS457 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.</p>

Anti-Pdcd4 phospho S457 Monoclonal Antibody (MP01105-1) Images



Western Blot of Mouse anti-Pdcd4 phospho S457 Biotin Conjugated antibody. Lane 1: Pdcd4 recombinant protein. Lane 2: none. Load: 100 ng per lane. Primary antibody: Pdcd4 phospho S457 Biotin Conjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: 30 min at RT. Predicted/Observed size: 50 kDa, 50 kDa for Pdcd4 phospho S457. Other band(s): Pdcd4 phospho S457 splice variants and isoforms



ELISA of Mouse anti-Pdcd4 phospho S457 Biotin Conjugated antibody. Antigen: BSA conjugates of Pdcd4 phospho S457 and Pdcd4 non-phospho S457. Coating amount: 0.1 µg per well. Primary antibody: Pdcd4 phospho S457 Biotin Conjugated antibody at 5 µg/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL Pdcd4 phospho S457 Biotin Conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB

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