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Datasheet for 200-301-DV4

PUMA Antibody [2A9G5]

Overview

Description:	Anti-PUMA (MOUSE) Antibody - 200-301-DV4
Item No.:	200-301-DV4
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein induces apoptosis through transcriptional activation of several genes. A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 upregulated modulator of apoptosis) and bbc3 (for Bcl-2 binding component 3) in human and mouse. PUMA/bbc3 is one of the pro-apoptotic Bcl-2 family members including Bax and Noxa, which are also transcriptional targets of p53. The PUMA gene encodes two BH3 domain-containing proteins termed PUMAa and PUMAb. PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.
Synonyms:	PUMA Antibody [2A9G5], JFY1, PUMA, JFY-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[2A9G5]
Format:	IgG1

Target Details

Gene Name:	BBC3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-PUMA antibody was produced In mice by repeated immunizations with a recombinant protein corresponding to amino acids 76 - 170 of human PUMA-alpha.
Purity/Specificity:	Anti-PUMA Monoclonal Antibody was immunoaffinity chromatography purified IgG. Cross reactivity with PUMA [2A9G5] from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BXH1 • GeneID - 27113 • NCBI - NP_001120712.1

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-PUMA Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 21 kDa in Western Blots of specific cell lysates and tissues. Validated in human samples. All other applications and species not yet tested.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:50,000
WB:	2.5-5 µg/mL

Formulation

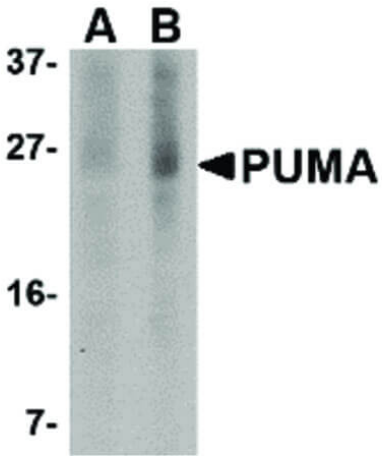
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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: Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse anti-PUMA antibody. Lane A: K562 cell lysate at 2.5 µg/mL. Lane B: K562 cell lysate at 5 µg/mL. Primary antibody: PUMA antibody overnight at 4℃. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 20 kDa with 3 isoforms, 27 kDa for PUMA.

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