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Datasheet for 200-301-Y28

APAF1 Antibody [5E11]

Overview

Description:	Anti-APAF1 (MOUSE) Monoclonal Antibody - 200-301-Y28
Item No.:	200-301-Y28
Size:	100 µg
Applications:	ELISA, IHC
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. The mammalian homologous of the key cell death gene CED-4 in C. elegans was identified recently from human and mouse and designated Apaf1 for apoptosis protease-activating factor 1. Apaf1 binds to cytochrome c (Apaf2) and caspase-9 (Apaf3), which leads to caspase-9 activation. Activated caspase-9 in turn cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Apaf1 can also associate with caspase-4 and caspase-8. Apaf1 transcript is ubiquitously expressed in human tissues.
Synonyms:	Apaf-1 Antibody [5E11] , CED4, APAF-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[5E11]

Target Details

Gene Name:	APAF1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Apaf1 antibody was produced by repeated immunizations in mice with peptide corresponding to amino acids near the C-terminus of human Apaf1.

Purity/Specificity:	Anti-Apaf-1 Monoclonal Antibody was immunoaffinity chromatography purified IgG. Cross reactivity with Apaf-1 [5E11] from other sources has not been determined.
Relevant Links:	• UniProtKB - O14727 • GeneID - 317 • NCBI - AAC51678

Application Details

Tested Applications:	ELISA, IHC
Application Note:	Anti-Apaf-1 Antibody has been tested for use in ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 142 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:	User Optimized
IHC:	0.5 µg/mL

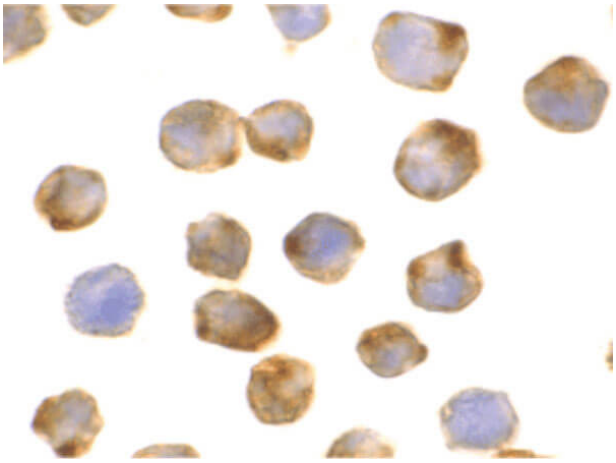
Formulation

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



Immunohistochemistry
Immunohistochemistry of Mouse anti-Apaf1 antibody. Tissue: K562 cells. Primary antibody: Apaf1 antibody at 0.5 µg/mL. Secondary antibody: Peroxidase mouse secondary antibody. Localization: Apaf1 is cytoplasmic.

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