

Datasheet for 200-301-A35**APAF1 Antibody [2E10]****Overview**

Description:	Anti-APAF1 (MOUSE) Monoclonal Antibody - 200-301-A35
Item No.:	200-301-A35
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Apoptosis is related to many diseases and is 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 homologue of the key cell death gene CED-4 in <i>C. elegans</i> 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, one of the key proteases 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. Anti-Apaf1 antibody is ideal for investigators that are involved in Apoptosis, Cytokine and growth factor research.
Synonyms:	Apoptotic peptidase activating factor 1 antibody, Apoptotic protease activating factor 1 antibody, Apoptotic protease activating factor antibody, CED 4 antibody, CED4 antibody, KIAA0413 antibody, Apaf1, Apaf-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2E10
Format:	IgG

Target Details

Gene Name:	APAF1
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Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Apaf1 Antibody monoclonal antibody was prepared using conventional hybridoma technology after repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human Apaf1 protein.
Purity/Specificity:	Apaf1 Antibody is directed against human Apaf1 protein. The product was purified from Ascites by immunoaffinity chromatography purified IgG. Expect reactivity with human, mouse and rat Apaf1. Cross-reactivity with Apaf1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O14727 • NCBI - NP_001151.1 • GeneID - 317

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Apaf1 Antibody has been tested for use in ELISA, immunohistochemistry-P, and western blotting. Specific conditions for reactivity should be optimized by the end user. Paraformaldehyde fixation is recommended for immunohistochemical staining. Expect a band at ~130 kDa in size corresponding to Apaf1 by western blotting in the appropriate cell lysate or extract. K562 cells can be used as a positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IHC:	1:100 - 1:1,000
WB:	1:200 - 1:2,000

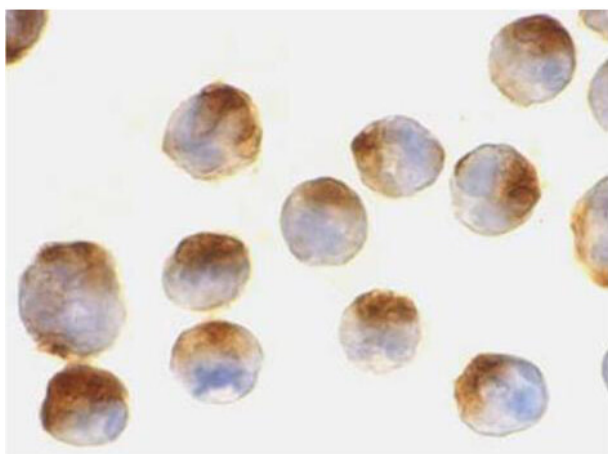
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 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

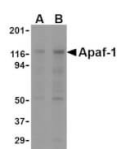


Immunohistochemistry

Immunohistochemical staining using Rockland's monoclonal anti-Apaf1 antibody at 0.5 µg/ml shows detection of Apaf1 in K562 cells. Cells were fixed in 4% paraformaldehyde.

Western Blot

Western blot using Rockland's monoclonal anti-Apaf1 antibody shows detection of a single band at ~130 kDa corresponding to Apaf1 in K562 cell lysate. The primary antibody was used at 250 ng/ml (lane A) and 500 ng/ml (lane B).



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.