



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit anti- BID antibody

Catalog No:
130-10027

Isotype:
Rabbit Ig G

Species:
Human

Accession No:
P55957

Description

BID, **apoptic death agonist** is a pro-apoptotic Bcl-2 protein containing only the BH3 domain. The expression of BID is upregulated by the tumor suppressor p53, and BID has been shown to be involved in p53-mediated apoptosis. The p53 protein is a transcription factor that, when activated as part of the cell's response to stress, regulates many downstream target genes, including BID.

The major proteolytic product p15 BID allows the release of cytochrome c by similarity. Isoform 1, isoform 2 and isoform 4 induce ICE-like proteases and apoptosis. Isoform 3 does not induce apoptosis.

Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:40000(at least detecting 25ng/ml)
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology paraffin	-		*	
Immunohistology resin	-		*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was synthetic peptide derived from human BID. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation, and followed by Protein A/G affinity chromatography.

Binding Activity

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat BID was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at 4°C . **Please avoid freeze-thaw cycles.**

Storage

Keep it at 4°C if intended for use within a month, otherwise, Store at -20°C . **Minimize freezing and thawing when use.**

Related products

1. Goat anti BID, with HRP-conjugated secondary antibody (Cat#ER-03-0002)
2. Recombinant Mouse BH3 Interacting Domain Death Agonist p15 (Cat#228-11484-2)
3. RayBio® Human Apoptosis Array 1 (2) (Cat# AAH-APO-1-2)

Reference

Chou JJ, et.al., Solution structure of BID, an intracellular amplifier of apoptotic signaling. (1999) Cell. 96(5):615-24.

Rush J, et.al., Immunoaffinity profiling of tyrosine phosphorylation in cancer cells. (2005) Nat Biotechnol. 23(1):94-101.

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