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Product Information

Anti-BID

Cleavage site [59/60] specific

produced in rabbit, affinity isolated antibody

Catalog Number **B3183**

Product Description

Anti-BID, Cleavage site [59/60] specific, is developed in rabbit using a synthetic peptide derived from the 15 kDa caspase-8 cleavage product of mouse BID as immunogen. The serum is affinity purified using epitope-specific affinity chromatography. The antibody is preadsorbed to remove any reactivity with the non-cleavage site-specific BID.

The antibody recognizes 15 kDa fragment of mouse BID (BH3 interacting domain death agonist), a product of caspase-8 cleavage during apoptosis, by immunoblotting. It does not recognize full-length mouse BID. The antibody detects cleaved mouse BID, but not human BID.

BID is a member of the Bcl-2 family of pro-apoptotic molecules. BID is activated by caspase 8 in response to Fas/TNF-R1 receptor activation. Caspase-8 cleaves inactive 22 kDa BID into a major active 15 kDa fragment and minor 13 and 11 kDa fragments.² Activated BID is translocated to mitochondria where it induces cytochrome c release, which in turn activates downstream caspases. This process could be responsible for the pathogenesis of a number of human diseases.^{3,4}

Reagent

Supplied as a solution in Dulbecco's phosphate buffered saline, (without Mg²⁺ and Ca²⁺), pH 7.3, with 50% glycerol, 1.0 mg/ml BSA (IgG and protease free) and 0.05% sodium azide.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

Storage/Stability

Store at -20°C. For extended storage, upon initial thawing, freeze in working aliquots. Avoid repeated freezing and thawing to prevent denaturing the antibody. Do not store in a frost-free freezer. Working dilution samples should be discarded if not used within 12 hours. The antibody is stable for at least 6 months when stored appropriately.

Product Profile

Immunoblotting: a recommended working dilution of 1:1000 is determined using mouse L929 cells treated with TNF- α or caspase-8 cleaved recombinant mouse BID.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Yin, X.M., *J. Mol. Med.* **78**, 203-211 (2000).
2. Gross, A., et al., *J. Biol. Chem.*, **274**, 1156-1163 (1999).
3. Yin, X.M., *Cell Res.*, **10**, 161-167 (2000).
4. Frish, S.M., et al., *Curr. Biol.*, **18**, 1047-1049 (1999).

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