Revision 1

#2006 Store at -20C

BID (7A3) Mouse mAb (Human Specific)

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	22	Mouse IgG1	#P55957	637

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

BID (7A3) Mouse mAb (Human Specific) detects endogenous levels of full length human BID.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the cleavage site of human BID. Antibody is supplied in HEPES buffer with 50% glycerol and less than 0.02% sodium azide.

Background

Bid is a pro-apoptotic “BH3 domain-only” member of the Bcl-2 family originally discovered to interact with both the anti-apoptotic family member Bcl-2 and the pro-apoptotic protein Bax (1). Bid is normally localized in the cytosolic fraction of cells as an inactive precursor and is cleaved at Asp60 by caspase-8 during Fas signaling, leading to translocation of the carboxyl terminal p15 fragment (tBid) to the mitochondrial outer membrane (2-4). Translocation of Bid is associated with release of cytochrome c from the mitochondria, leading to complex formation with Apaf-1 and caspase-9 and resulting in caspase-9 activation (5-7). Thus, Bid relays an apoptotic signal from the cell surface to the mitochondria triggering caspase activation (8,9).

Background References

1. Wang, K. et al. (1996) *Genes Dev* 10, 2859-69.
2. Luo, X. et al. (1998) *Cell* 94, 481-90.
3. Li, H. et al. (1998) *Cell* 94, 491-501.
4. Gross, A. et al. (1999) *J Biol Chem* 274, 1156-63.
5. Li, P. et al. (1997) *Cell* 91, 479-89.
6. Zou, H. et al. (1999) *J Biol Chem* 274, 11549-56.
7. Saleh, A. et al. (1999) *J Biol Chem* 274, 17941-5.
8. Yin, X.M. et al. (1999) *Nature* 400, 886-91.
9. Korsmeyer, S.J. et al. (2000) *Cell Death Differ* 7, 1166-73.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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