

Bax (D3R2M) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P	M R	Endogenous	20	Rabbit IgG	#Q07813	12028

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:400

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.

For a carrier free (BSA and azide free) version of this product see product #28903.

Specificity/Sensitivity

Bax (D3R2M) Rabbit mAb recognizes endogenous levels of total Bax protein in rodent samples. It can detect human Bax protein by western blot, but not by other applications.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu70 of mouse Bax protein.

Background

Bax is a key component for cellular induced apoptosis through mitochondrial stress (1). Upon apoptotic stimulation, Bax forms oligomers and translocates from the cytosol to the mitochondrial membrane (2). Through interactions with pore proteins on the mitochondrial membrane, Bax increases the membrane's permeability, which leads to the release of cytochrome c from mitochondria, activation of caspase-9, and initiation of the caspase activation pathway for apoptosis (3,4).

Background References

1. Wei, M.C. et al. (2001) *Science* 292, 727-30.
2. Jürgensmeier, J.M. et al. (1998) *Proc Natl Acad Sci U S A* 95, 4997-5002.
3. Narita, M. et al. (1998) *Proc Natl Acad Sci U S A* 95, 14681-6.
4. Marzo, I. et al. (1998) *Science* 281, 2027-31.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

M: Mouse **R:** Rat

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