

# Anti-BAX Antibody [3-D2]

## EM1203



|                            |  |
|----------------------------|--|
| <b>Product Type:</b>       | Mouse monoclonal IgA, primary antibodies |
| <b>Species reactivity:</b> | Human, Mouse                             |
| <b>Applications:</b>       | WB, IF-Cell, IHC-P, FC                   |
| <b>Molecular Wt:</b>       | Predicted band size: 21 kDa              |
| <b>Clone number:</b>       | 3-D2                                     |

**Description:** BAX is a member of the Bcl-2 gene family. Apoptosis regulator BAX promotes apoptosis by binding to and antagonizing the Bcl-2 protein. In healthy mammalian cells, the majority of BAX is found in the cytosol, but upon initiation of apoptotic signaling, Bax undergoes a conformational shift. Upon induction of apoptosis, BAX becomes organelle membrane-associated, and in particular, mitochondrial membrane associated. The expression of BAX is upregulated by the tumor suppressor protein p53, and BAX 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 BAX.

**Immunogen:** This antibody is produced by immunizing mice with a synthetic peptide (KLH-coupled) corresponding to N-terminal BAX.

**Positive control:** Daudi cell lysate, Raji cell lysate, HepG2, HeLa.

**Subcellular location:** Mitochondrion membrane, cytoplasm

**Database links:** SwissProt: Q07812 Human | Q07813 Mouse

### Recommended Dilutions:

|                |       |
|----------------|-------|
| <b>WB</b>      | 1:500 |
| <b>IF-Cell</b> | 1:200 |
| <b>IHC-P</b>   | 1:200 |
| <b>FC</b>      | 1:50  |

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

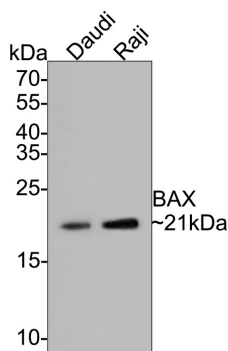
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## Images

**Fig1:** Western blot analysis of BAX on different lysates with Mouse anti-BAX antibody (EM1203) at 1/500 dilution.

Lane 1: Daudi cell lysate

Lane 2: Raji cell lysate



Lysates/proteins at 10 µg/Lane.

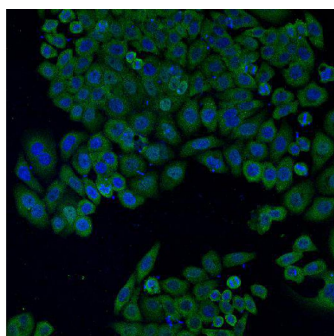
Predicted band size: 21 kDa

Observed band size: 21 kDa

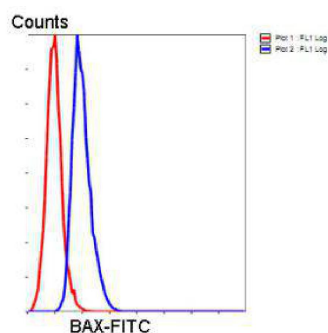
Exposure time: 2 minutes;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM1203) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.



**Fig2:** ICC staining of BAX in HepG2 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 10% negative goat serum for 15 minutes at room temperature. Cells were probed with the primary antibody (EM1203, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 conjugate-Goat anti-Mouse IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).



**Fig3:** Flow cytometric analysis of HeLa cells with vimentin antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti mouse IgA (FITC) was used as the secondary antibody.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. "Elucidation of some Bax conformational changes through crystallization of an antibody-peptide complex." Peyerl F.W., Dai S., Murphy G.A., Crawford F., White J., Marrack P., Kappler J.W. *Cell Death Differ.* 14:447-452(2006)
2. "BAX activation is initiated at a novel interaction site." Gavathiotis E., Suzuki M., Davis M.L., Pitter K., Bird G.H., Katz S.G., Tu H.C., Kim H., Cheng E.H., Tjandra N., Walensky L.D. *Nature* 455:1076-1081(2007)
3. "Mutation to Bax beyond the BH3 domain disrupts interactions with pro-survival proteins and promotes apoptosis." Czabotar P.E., Lee E.F., Thompson G.V., Wardak A.Z., Fairlie W.D., Colman P.M. *J. Biol. Chem.* 286:7123-7131(2010)

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