

Bax Monoclonal Antibody (2D2)

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Rat, Bovine, Human, Donkey
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	2D2
Conjugate	Unconjugated
Immunogen	A synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein. This amino acid sequence is NOT shared by mouse and rat bax protein.
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_11004781

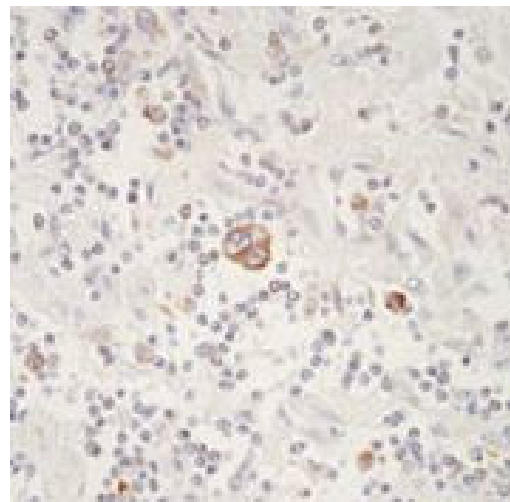
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	19 Publications
Immunohistochemistry (IHC)	-	28 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL	2 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	5 Publications
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

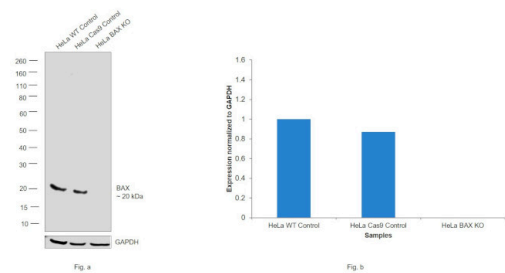
MA5-13994 targets Bax in IF, IHC (P), and WB applications and shows reactivity with Human samples.

The MA5-13994 immunogen is a synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein. This amino acid sequence is NOT shared by mouse and rat bax protein.

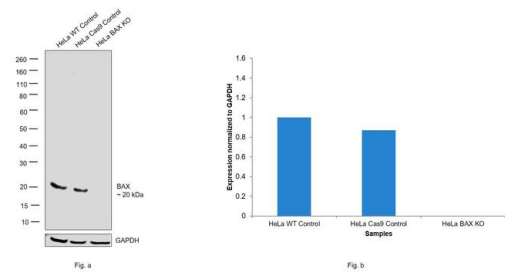
Product Images For Bax Monoclonal Antibody (2D2)



Bax Antibody (MA5-13994) in IHC (P)
Formalin-fixed, paraffin-embedded human Hodgkin's lymphoma stained with Bax antibody using peroxidase-conjugate and DAB chromogen. Note membrane staining of Reed-Sternberg cells.



Bax Antibody (MA5-13994)
Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in BAX KO cell line compared to control cell line using Anti- Bax Monoclonal Antibody (2D2) (Product # MA5-13994). {KO}



Bax Antibody (MA5-13994) in WB
Knockout of BAX was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, AssayID CRISPR612938_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of BAX was performed by loading 30 µg of HeLa wild type (Lane 1), HeLa CAS9 (Lane 2) and HeLa BAX KO (Lane 3) whole cell extracts. The samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-Bax Monoclonal Antibody (2D2) (Product # MA5-13994) at a dilution of 1 µg/mL and Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1: 4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to BAX.

View more figures on thermofisher.com

Western Blot (19)

Biomedicines gp130 Activates Mitochondrial Dynamics for Hepatocyte Survival in a Model of Steatohepatitis. "MA5-13994 was used in Western Blotting to investigate the effect of gp130 on the components of mitochondrial dynamics in a cellular model of steatohepatitis." Authors: Shunkina D,Dakhnevich A,Shunkin E,Khaziakhmatova O,Shupletsova V,Vulf M,Komar A,Kirienkova E, Litvinova L	Year 2023 Species Human
Molecular medicine reports miR2053p promotes lung cancer progression by targeting APBB2. "Published figure using Bax monoclonal antibody (Product # MA5-13994) in Western Blot" Authors: Xu LB,Xiong J,Zhang YH,Dai Y,Ren XP,Ren YJ,Han D,Wei SH,Qi M	Year 2021

[View more WB references on thermofisher.com](#)

Immunohistochemistry (28)

Reproduction in domestic animals = Zuchthygiene Age-related changes in testicular morphometry and function in Egyptian donkeys. "MA5-13994 was used in Immunohistochemistry to conclude that advancement of age affects the testicular morphometry and function in donkeys." Authors: Masoud SR,Kishta AA,Canisso IF,Abdel-Megeid NS,Fathalla SI,Shawky SM,Abdoon ASS	Year 2022 Species Donkey
Toxicology and industrial health The protective effects of carnosine in alcohol-induced hepatic injury in rats. "MA5-13994 was used in immunohistochemistry to study the mechanisms underlying the protective effects of carnosine in a rat model of alcohol-induced liver damage" Authors: Baykara B,Micili SC,Tugyan K,Tekmen I,Bagriyanik H,Sonmez U,Sonmez A,Oktay G,Yener N,Ozbal S	Year 2014 Species Rat Dilution 1:100

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

- IHC (P) (2)
- IHC (Free) (1)
- ICC/IF (5)
- Misc (4)

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