BAK1 Monoclonal Antibody (4C2)

Product Details

Size	100 µg	
Species Reactivity	Human, Mouse, Rat	
Published Species	Human	
Host/Isotype	Mouse / IgG2b	
Class	Monoclonal	
Туре	Antibody	
Clone	4C2	
Conjugate	Unconjugated	
Immunogen	E.coli-derived human BAK/BAK1 recombinant protein (Position: A22-S211). Human BAK shares 78.3 % aminoacid (aa)sequenceidentity with mouse BAK.	
Form	Lyophilized	
Concentration	500 μg/mL	
Purification	Affinity chromatography	
Storage buffer	PBS with 4mg trehalose	
Contains	0.05mg sodium azide	
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	
RRID	AB_2884059	

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	0.5-1 μg/mL	-
Immunocytochemistry (ICC/IF)	2 μg/mL	-
Flow Cytometry (Flow)	1-3 µg/1x10^6 cells	-
ELISA (ELISA)	-	1 Publication

Product Specific Information

Reconstitute with 0.2 mL of distilled water to yield a concentration of 500 μ g/mL.

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Product Images For BAK1 Monoclonal Antibody (4C2)



BAK1 Antibody (MA5-36225)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with BAK1 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-BAK1 Monoclonal Antibody (4C2) (Product # MA5-36225). {KD}



BAK1 Antibody (MA5-36225) in WB

Western blot was performed using Anti-BAK1 Monoclonal Antibody (4C2) (Product # MA5-36225) and a 25 kDa band corresponding to BAK1 was observed across tissues and cell lines tested. Membrane enriched extracts (30 µg lysate) of MCF7 (Lane 1), Ramos (Lane 2), K-562 (Lane 3), Mouse Stomach (Lane 4), Mouse Skeletal Muscle (Lane 5), Mouse Liver (Lane 6) were electrophoresed using NuPAGETM 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.5 µg/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) SuperclonalTM Recombinant Secondary Antibody, HRP (Product # A28177,1:5000 dilution) using the iBrightTM FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignalTM West Pico PLUS Chemiluminescent Substrate (Product # 34580).



BAK1 Antibody (MA5-36225) in WB

Western blot analysis of BAK1 in the following samples: Lane 1: human HEK293 whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human SW620 whole cell lysates, Lane 4: human T-47D whole cell lysates, Lane 5: human HepG2 whole cell lysates. Samples consisting of 50 μ g (reducing conditions) of protein was separated with 5-20% SDS-PAGE gel (70V, Stacking gel; 90V, Resolving gel; 2-3 hrs.), transferred to a Nitrocellulose membrane (150mA, 50-90 min) and washed with TBS-0.1% Tween (3 times, 5 minutes /wash) and blocked with 5% Non-fat Milk/TBS (1.5 hrs., room temperature). The membrane was incubated in BAK1 monoclonal antibody (Product # MA5-36225) at a dilution of 0.5 μ g/mL (overnight, 4°C), followed by goat anti-mouse IgG-HRP and chemiluminescence (ECL) with a dilution of 1:10,000 (1.5 hours, room temperature).

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ELISA (1)

International journal of molecular sciences

GSK3 Inhibition Is the Molecular Pivot That Underlies the Mir-210-Induced Attenuation of Intrinsic Apoptosis Cascade during Hypoxia.

"MA5-36225 was used in ELISA to unveil that the inhibition of GSK3 kinase activity is indispensable in mediating the miR-210-orchestrated protective cellular response to hypoxia-induced apoptotic cell death."

Authors: Marwarha G, Røsand Ø, Slagsvold KH, Høydal MA

Year 2022

Species Human

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