

RelB Monoclonal Antibody (17.3)

Catalog Number437500

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rhesus monkey
Host/Isotope	Mouse / IgG1, kappa	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	17.3		
Immunogen	Recombinant protein derived from C-terminal region of human RelB protein.		
Conjugate	Unconjugated		
Form	Liquid	Flow Cytometry (Flow)	Assay-dependent
Concentration	0.5 mg/mL	Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50
Purification	Protein A	Immunoprecipitation (IP)	Assay-dependent
Storage buffer	PBS, pH 7.4	Western Blot (WB)	1-2 µg/mL
Contains	0.1% sodium azide	Immunocytochemistry (ICC/IF)	1 µg/mL
Storage Conditions	-20°C	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Background/Target Information

The NFκB transcription factor was originally identified as a protein complex consisting of a DNA-binding subunit and an associated protein. The DNA-binding subunit is functionally related to c-Rel p75 and Rel B p68. The p50 subunit was initially believed to be a functionally unique protein derived from the amino-terminus of a precursor designated p105. A second protein designated p52 (previously referred to as p49) has been identified that can act as an alternative NFκB subunit. Rel B does not bind with high affinity to NFκB sites, but heterodimers between Rel B and p50 bind with an affinity comparable to that of p50 NFκB homodimers. However, Rel B/p50 heterodimers, in contrast to NFκB heterodimers, transactivates transcription of promoters containing κB binding sites.

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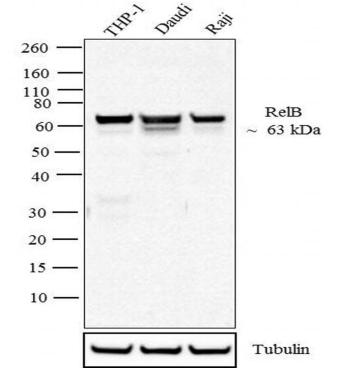
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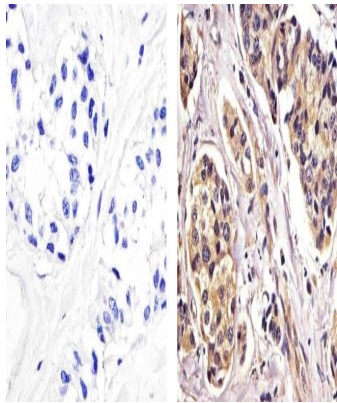
RelB Antibody (437500) in WB

Western blot analysis of RelB was performed by loading 20 µg of THP-1 (lane1), Daudi (lane2) and Raji (lane3) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® 2 Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. RelB was detected at ~ 63 kDa using RelB Mouse Monoclonal Antibody (Product # 437500) at 1-2 µg /mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



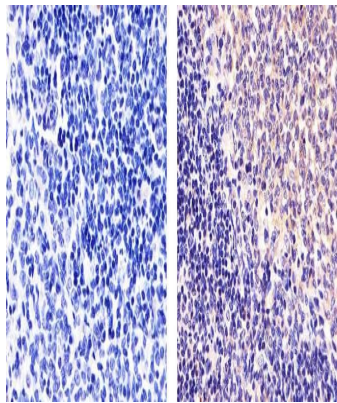
RelB Antibody (437500) in IHC (P)

Immunohistochemistry analysis of RELB showing staining in the cytoplasm and nucleus of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a RELB Mouse Monoclonal Antibody (Product # 437500) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



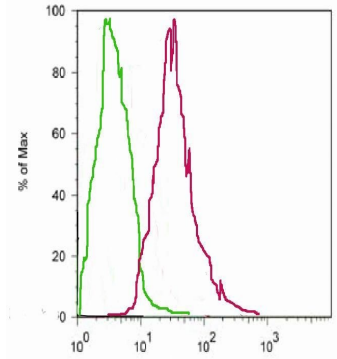
RelB Antibody (437500) in IHC (P)

Immunohistochemistry analysis of RELB showing staining in the nucleus and cytoplasm of paraffin-embedded mouse spleen tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a RELB Mouse Monoclonal Antibody (Product # 437500) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



RelB Antibody (437500) in Flow

Flow Cytometric analysis of Raji cells, green: 0 µg/mL of primary antibody, red: 5 µg/mL of primary antibody using IgG (H+L), Goat F (ab´)2 Anti-Mouse, (R-PE) (Product # M350043) secondary antibody, and Product # GAS-003 for Fix and Perm.



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