

NFkB p65 Recombinant Rabbit Monoclonal Antibody (4-2H22L23)

| Product Details | |
|--------------------|--|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Rabbit / IgG |
| Expression system | Expi293 |
| Class | Recombinant Monoclonal |
| Type | Antibody |
| Clone | 4-2H22L23 |
| Conjugate | Unconjugated |
| Immunogen | Recombinant protein corresponding to amino acids 375-551 of NF kappaB p65 |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS |
| Contains | 0.09% sodium azide |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_2532375 |

| Applications | Tested Dilution | Publications |
|---|---------------------|---------------|
| Western Blot (WB) | 1-5 µg/mL | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:10-1:50 | - |
| Immunocytochemistry (ICC/IF) | 5 µg/mL | 1 Publication |
| ChIP assay (ChIP) | 1-5 µg x 10^6 cells | - |

Product Specific Information

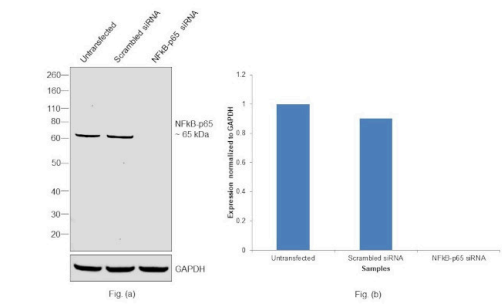
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For NFkB p65 Recombinant Rabbit Monoclonal Antibody (4-2H22L23)

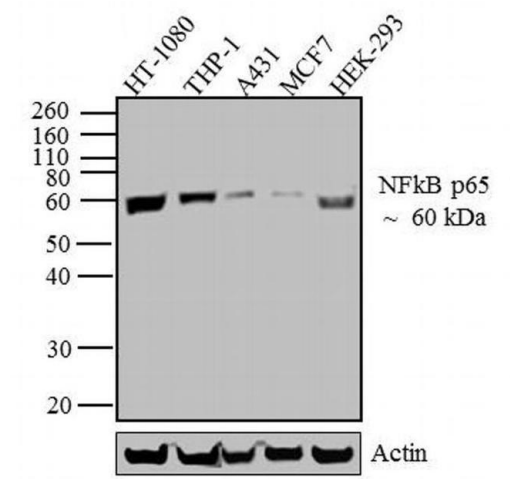
NFkB p65 Antibody (701079)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with NFkB p65 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-NFkB p65 Recombinant Rabbit Monoclonal Antibody (4-2H22L23) (Product # 701079). {KD}



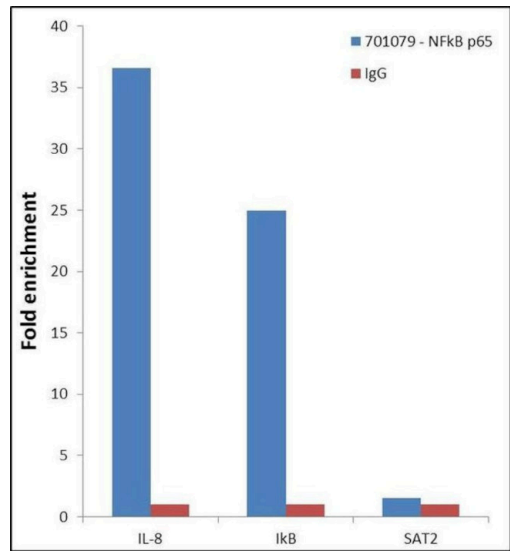
NFkB p65 Antibody (701079) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HT-1080 (Lane 1), THP-1 (Lane 2), A431 (Lane 3), MCF7 (lane 4) and HEK-293 (lane 5). The blots were probed with Anti-NFkB p65 Recombinant Rabbit Monoclonal Antibody (Product # 701079, 2-3 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 60 kDa band corresponding to NFkB p65 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



NFkB p65 Antibody (701079)

Antibody specificity was demonstrated through detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using anti-NFkBp65 rabbit monoclonal antibody (Product # 701079), with relevant positive (IκB, IL8) and negative target genes/ binding sites(SAT2) {RE}



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Western Blot (1)

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| Biomedicines | Year 2023 |
| gp130 Activates Mitochondrial Dynamics for Hepatocyte Survival in a Model of Steatohepatitis. | Species Human |
| "701079 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 | |

Immunocytochemistry (1)

| | |
|--|------------------|
| Laboratory investigation; a journal of technical methods and pathology | Year 2020 |
| Hemoglobin oxidation generates globin-derived peptides in atherosclerotic lesions and intraventricular hemorrhage of the brain, provoking endothelial dysfunction. | Species Human |
| "701079 was used in Immunocytochemistry-immunoflourescence to investigate if hemoglobin-derived peptides are generated during hemoglobin oxidation both in complicated atherosclerotic lesions and intraventricular hemorrhage of the brain, triggering endothelial cell dysfunction." | |
| Authors: Posta N,Cssz É,Oros M,Peth D,Potor L,Kalló G,Hendrik Z,Sikura KÉ,Méhes G,Tóth C,Posta J,Balla G,Balla J | |
| Dilution 1:25 | |

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