

Phospho-AKT1 (Thr308) Recombinant Rabbit Monoclonal Antibody (B18H12L21)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	B18H12L21
Conjugate	Unconjugated
Immunogen	Phosphopeptide corresponding to amino acids 304-312 of human AKT
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_2532357

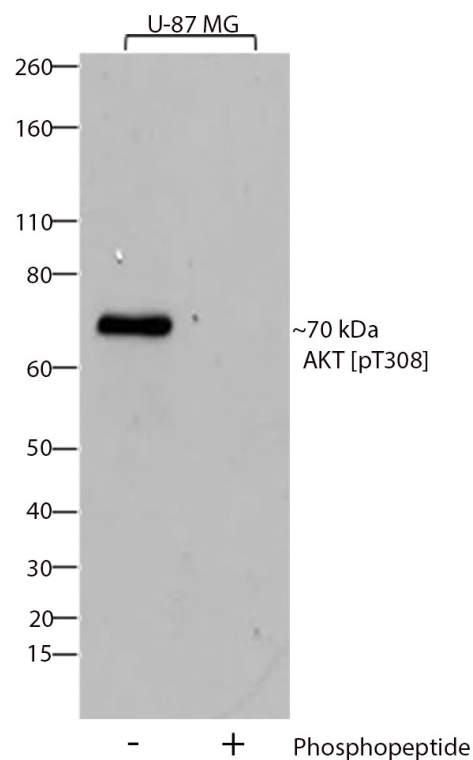
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:5,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

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.

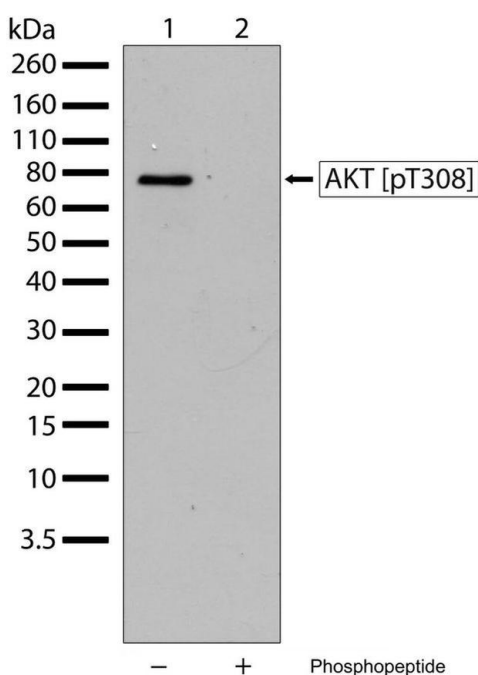
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages 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 Phospho-AKT1 (Thr308) Recombinant Rabbit Monoclonal Antibody (B18H12L21)



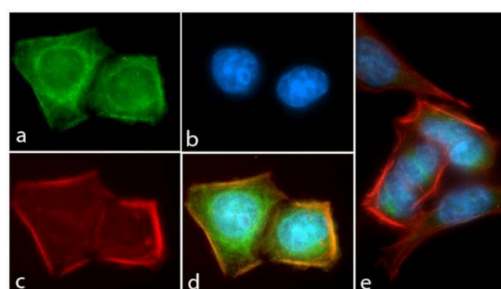
Phospho-AKT1 (Thr308) Antibody (701052) in WB

Western blot analysis of AKT (pT308) was performed by loading 30 µg of U-87 MG cell lysate (lane 1) using Novex®NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. AKT (pT308) was detected at ~70 kDa using AKT (pT308) Recombinant Rabbit Monoclonal Antibody (Product # 701052) at a 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. To confirm specificity, competition was performed with the phosphopeptide (10 µg/mL) (lane 2). Detection was performed using an HRP-conjugated Goat anti-Rabbit secondary antibody (Product # G-21234) at a 1:5000 dilution and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Phospho-AKT1 (Thr308) Antibody (701052) in WB

Western blot analysis of Phospho-AKT pThr308 in whole cell extracts of U87-MG cells using a Phospho-AKT pThr308 recombinant rabbit monoclonal antibody (Product # 701052) at a dilution of 1 µg/mL. To confirm specificity, competition was performed by preincubation with the phosphopeptide to inhibit antibody binding (lane 2). Samples were detected using chemiluminescence (ECL). Results show a band at ~70kDa.



Phospho-AKT1 (Thr308) Antibody (701052) in ICC/IF

Immunofluorescent analysis of Phospho-AKT pThr308 in serum-starved HeLa cells treated with insulin (100 ng/mL, 15 min) using a Phospho-AKT pThr308 recombinant rabbit monoclonal antibody (Product # 701052) followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing nuclear localization of phosphorylated AKT and Image E is a composite image of cells showing competition with the phospho AKT (pT308) peptide.

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