

Phospho-AKT1 (Thr308) Recombinant Polyclonal Antibody (B18HCLC)

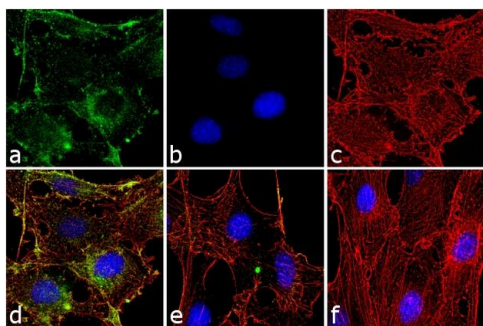
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rat
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	B18HCLC
Conjugate	Unconjugated
Immunogen	Phosphopeptide corresponding to amino acids 304–312 of human AKT
Form	Liquid
Concentration	0.5 mg/mL
Purification	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_2532575

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	0.5-2 µg/mL	1 Publication
Immunocytochemistry (ICC)	✓	2-3 µg/mL	
Immunofluorescence (IF)	✓	2-3 µg/mL	

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 polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds – the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody – recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets – a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.



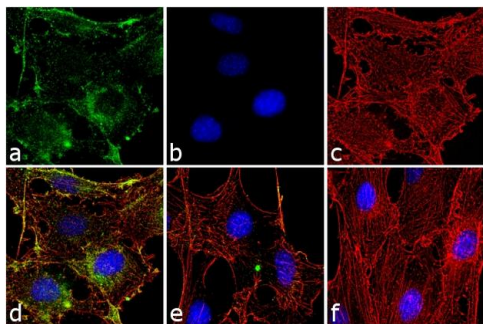
Phospho-AKT1 (Thr308) Antibody (710122)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of Phospho-AKT pThr308 using Phospho-AKT pThr308 Recombinant Rabbit Polyclonal Antibody (Product # 710122) shows induction of Phospho-AKT pThr308 in PDGF treated NIH/3T3 cells. Cell Treatment validation info.

Product Images For Phospho-AKT1 (Thr308) Recombinant Polyclonal Antibody (B18HCLC)

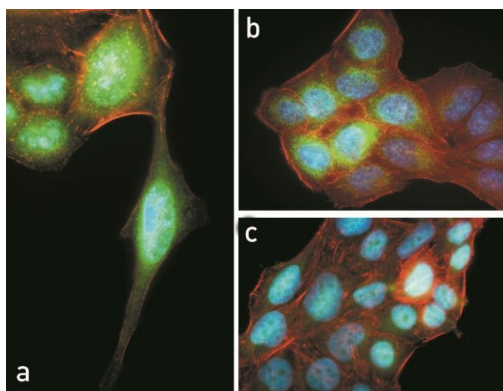
Phospho-AKT1 (Thr308) Antibody (710122) in IF

Immunofluorescence analysis Phospho-AKT pThr308 was done on 70% confluent log phase NIH/3T3 cells treated with 50 ng of PDGF for 10 minutes. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Phospho-AKT pThr308 (B18HCLC), Recombinant Rabbit Polyclonal Antibody (Product # 710122) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic and membranous localization. Panel e is untreated cells with no signal. Panel f is a no primary antibody control. The images were captured at 60X magnification.



Phospho-AKT1 (Thr308) Antibody (710122) in IF

Immunofluorescent analysis of Phospho-AKT pThr308 in HeLa cells using a Phospho-AKT pThr308 Recombinant Rabbit Polyclonal Antibody (Product # 710122) followed by detection using an Alexa Fluor 488-conjugated Goat anti-Rabbit secondary antibody (green), nuclei staining using DAPI (blue) and actin staining using Alexa Fluor 594 phalloidin (red). Images a and b are composite images showing nuclear localization of phosphorylated AKT and image c shows the results of a competition assay using phospho AKT (pT308) peptide.



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Western Blot (1)

Bioscience reports

Neonatal maternal deprivation impairs localized *de novo* activity-induced protein translation at the synapse in the rat hippocampus.

Authors: Ahmad F, Salahuddin M, Alsamman K, Herzallah HK, Al-Otaibi ST

Species
Rat

Dilution
Not Cited

Year
2018

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