CREB Recombinant Polyclonal Antibody (3HCLC)

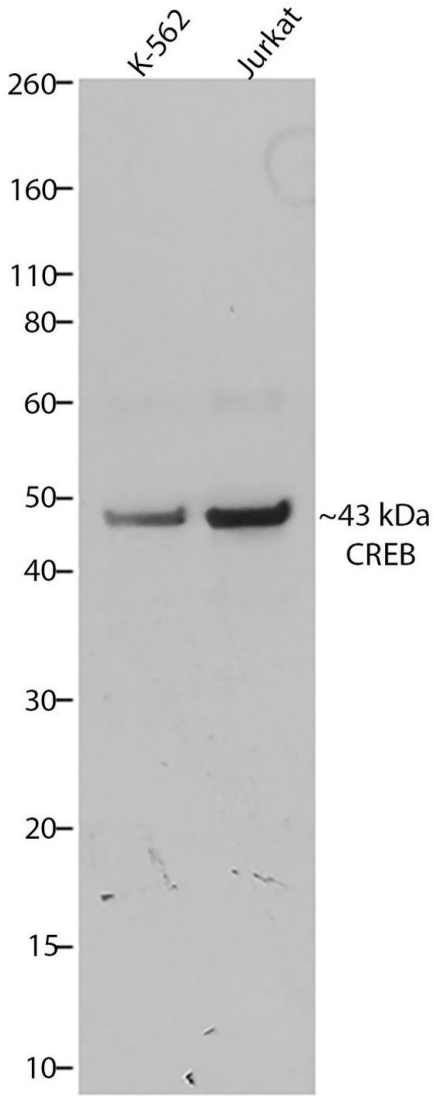
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	3HCLC
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 222-341 of human CREB
Form	Liquid
Concentration	0.5 mg/mL
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_2532591

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

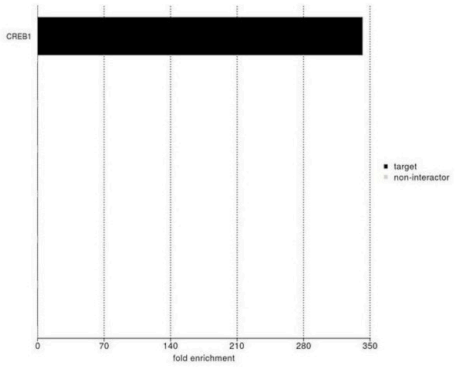
Product Specific Information

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.

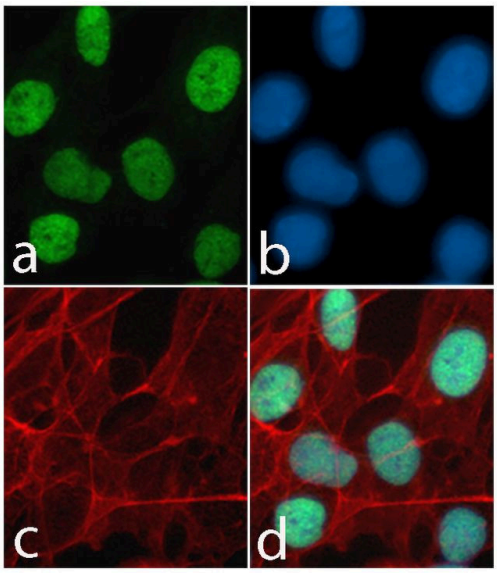
Product Images For CREB Recombinant Polyclonal Antibody (3HCLC)



CREB Antibody (710149) in WB
Western blot analysis of CREB was performed by loading 30 µg of K562 and Jurkat cell lysates 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. CREB was detected at ~43 kDa using CREB Recombinant Rabbit Polyclonal Antibody (Product # 710149) at a 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. 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).



CREB Antibody (710149)
IP-MS enrichment of CREB1 (LFQ intensity): CREB1 was enriched 342-fold from A549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and CREB1 antibody (Product # 710149). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



CREB Antibody (710149) in ICC/IF
Immunofluorescent analysis of CREB was performed on 70% confluent log phase U-2 OS cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0. 25% Triton X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with CREB Recombinant Rabbit Polyclonal Antibody (Product # 710149) at a dilution of 1: 1000 in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor® 488 Goat anti-Rabbit IgG secondary antibody (Product # A-11008) at a dilution of 1:400 for 30 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® 594 phalloidin (Product # A12381) and panel d is a merged image showing nuclear localization. The images were captured using a Nikon microscope at 20X magnification.

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