

Phospho-EpoR (Tyr454, Tyr456) 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	Phosphorylation of the human EPO Receptor at the Tyr454 and Tyr456
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_2532724

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	-

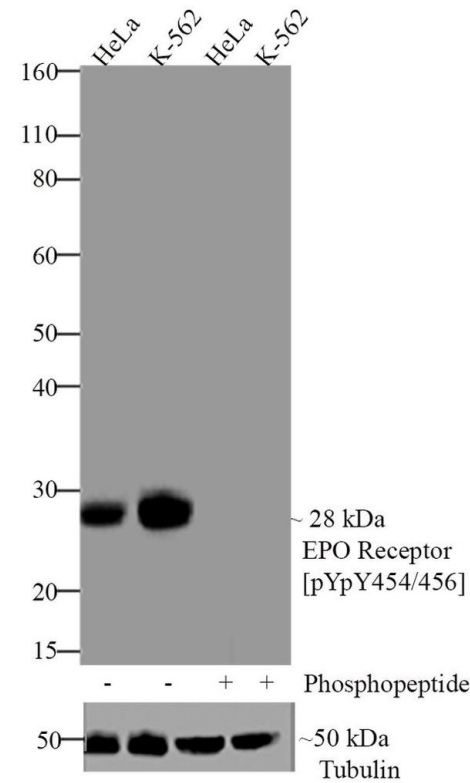
Product Specific Information

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 Phospho-EpoR (Tyr454, Tyr456) Recombinant Polyclonal Antibody (3HCLC)

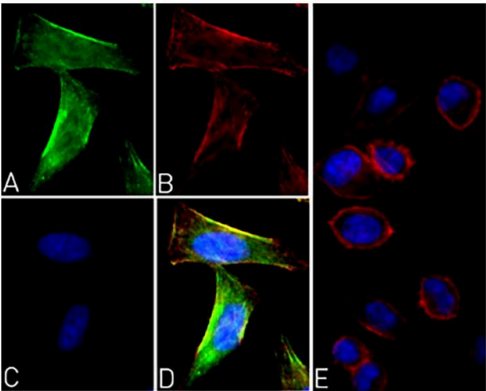
Phospho-EpoR (Tyr454, Tyr456) Antibody (710484) in WB

Western blot analysis of EPO Receptor (pYpY454/456) was performed by loading 30 µg of HeLa, K-562 cell lysates (lane 1, 2) 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. EPO Receptor (pYpY454/456) was detected at ~28 kDa using EPO Receptor (pYpY454/456) Recombinant Rabbit Polyclonal Antibody (Product # 710484) at 1:500 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 3, 4). Goat anti-Rabbit IgG - HRP Secondary Antibody (Product # G-21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Phospho-EpoR (Tyr454, Tyr456) Antibody (710484) in ICC/IF

Immunofluorescent analysis of EPO Receptor (pYpY454/456) was done on 70% confluent log phase HeLa 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 EPO Receptor (pYpY454/456) Recombinant Rabbit Polyclonal Antibody (Product # 710484) at a dilution of 1:500 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). F-actin (Panel b: red) was stained with Alexa Fluor® 594 Phalloidin (Product # A12381). Nuclei (Panel c: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel d is a merged image showing cytoplasmic and membrane localization. Panel e shows competition with the phospho- EPO R (pYpY454/456) peptide. The images were captured using Nikon enabled with cool snap at 20X magnification.



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