

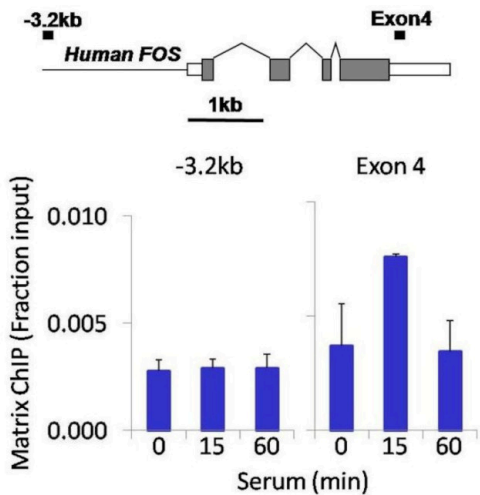
PDGFRA Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 259-436 of human platelet-derived growth factor receptor - alpha chain
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_2532600

Applications	Tested Dilution	Publications
Western Blot (WB)	2-5 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1-3 µg/mL	-
ChIP assay (ChIP)	1 µL	-

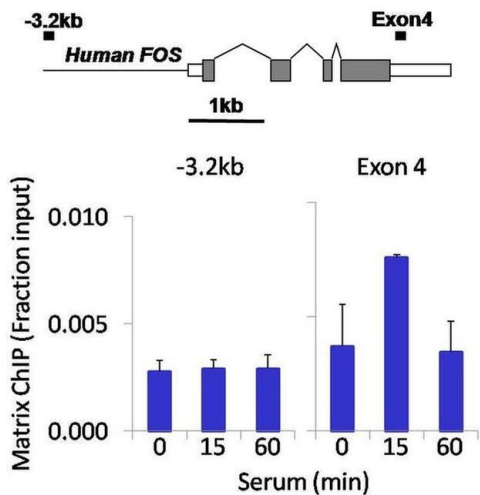
Product Specific Information

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.



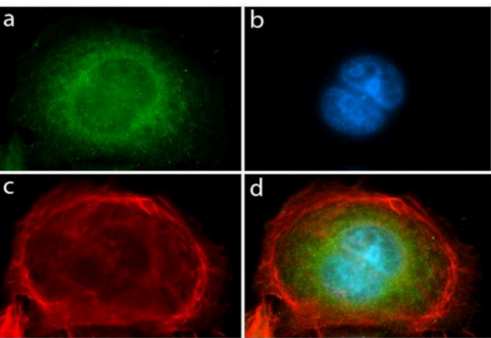
PDGFRA Antibody (710169) in ChIP

Chromatin immunoprecipitation analysis of PDGF Receptor alpha was performed using cross-linked chromatin from 1 x 10⁶ HCT116 human colon carcinoma cells treated with serum for 0, 15, and 60 minutes. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: <http://www.ncbi.nlm.nih.gov/pubmed/22098709>) with 1.0 μ L /100 μ L well volume of a PDGF Receptor alpha Recombinant Rabbit Polyclonal Antibody (Product # 710169). Chromatin aliquots from ~1 x 10⁵ cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 μ L of eluted DNA in 2 μ L SYBR real-time PCR reactions containing primers to amplify -3.2kb upstream of the human FOS gene, or exon-4 of human FOS. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean +/- SEM for three experiments. A schematic representation of the FOS locus is shown above the data where boxes represent exons (grey boxes = translated regions, white boxes = untranslated regions), the zigzag lines represent introns, and the straight line represents upstream sequence. Regions amplified by FOS primers are represented by black bars. Data courtesy of the Innovators Program.



PDGFRA Antibody (710169)

Antibody specificity was demonstrated through detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-PDGFR Recombinant Rabbit Polyclonal Antibody (Product # 710169), by treating -3.2kb upstream of the human FOS gene and exon4 of human FOS gene (a relevant positive target gene/binding site) with serum at different timepoints. {TM}



PDGFRA Antibody (710169) in ICC/IF

Immunofluorescent analysis of PDGFR alpha in serum-starved HeLa cells treated with insulin (100 ng/mL, 15 min) using a PDGFR alpha Recombinant Rabbit Polyclonal Antibody (Product # 710169) 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 cytoplasmic and nuclear membrane localization of PDGFR-alpha.

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Immunohistochemistry (1)

Annals of oncology : official journal of the European Society for Medical Oncology	Year 2017
A phase II study of tivozanib in patients with metastatic and nonresectable soft-tissue sarcomas.	Species Human
"710169 was used in immunohistochemistry to evaluate the use of Tivozanib to treat patients with soft tissue sarcomas"	
Authors: Agulnik M,Costa RLB,Milhem M,Rademaker AW,Prunder BC,Daniels D,Rhodes BT,Humphreys C,Abbinanti S,Nye L,Cehic R,Polish A,Vintilescu C,McFarland T,Skubitz K,Robinson S,Okuno S,Van Tine BA	

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