

# HIF1A Recombinant Polyclonal Antibody (16HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	16HCLC
Conjugate	Unconjugated
Immunogen	proprietary
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_2532541

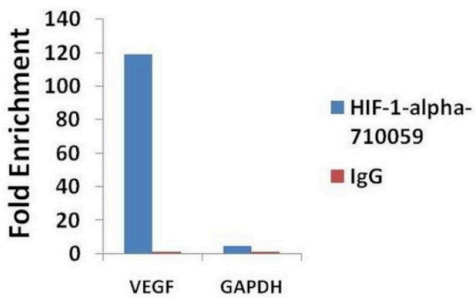
Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1 µg/mL	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-
ELISA (ELISA)	Assay-Dependent	-
ChIP assay (ChIP)	3 µg	-

## Product Specific Information

This antibody is predicted to react with mouse based on sequence homology.

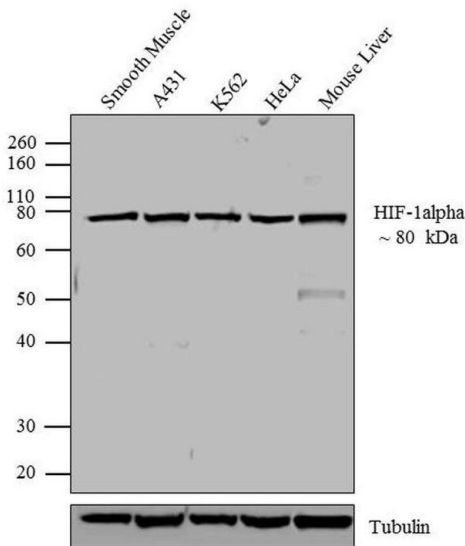
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - 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 HIF1A Recombinant Polyclonal Antibody (16HCLC)



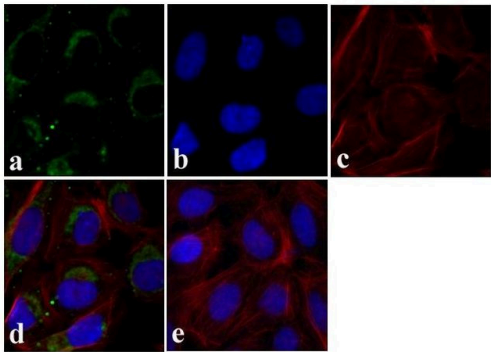
HIF1A Antibody (710059)

Antibody specificity was demonstrated through detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using HIF1-alpha Recombinant Rabbit Polyclonal Antibody (Product # 710059) with relevant positive and negative target genes/ binding sites. {RE}



HIF1A Antibody (710059) in WB

Western blot analysis of HIF1A was performed by loading 20 µg of A431 (lane 1), K562 (lane 2), HeLa (lane 3) and mouse liver (lane 4) 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. HIF1A was detected at ~80 kDa using HIF1A Recombinant Rabbit Polyclonal Antibody (Product # 710059) at 0.5-1 µg/mL in 2.5 % skim milk at 4°C overnight on a rocking platform. 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).



HIF1A Antibody (710059) in ICC/IF

Immunofluorescent analysis of HIF1-alpha was done on 70% confluent log phase U-2 OS cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with HIF1-alpha Recombinant Rabbit Polyclonal Antibody (Product # 710059) at 1 µg /mL 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). Panel d is a merged image showing cytoplasmic localization and panel e is a no primary antibody control. The images were captured at 20X magnification.

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