abcam

Product datasheet

Anti-HIF1AN/FIH-1 antibody [EPR27308-67] ab307829

Recombinant RabMAb

4 Images

Overview

Product name	Anti-HIF1AN/FIH-1 antibody [EPR27308-67]
Description	Rabbit monoclonal [EPR27308-67] to HIF1AN/FIH-1
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: C2C12, PC-12, C6, RAW264.7 and A20 whole cell lysate. Mouse brain, heart, colon, hypothalamus and skeletal tissue lysate. Rat brain, heart and hypothalamus tissue lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR27308-67

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab307829 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 40 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

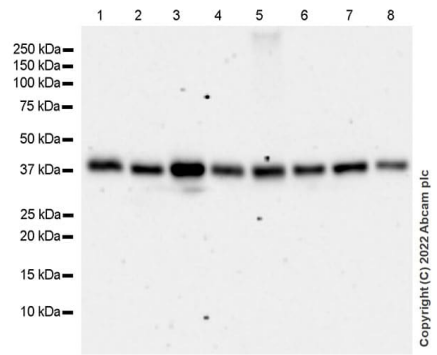
Target

Function Hydroxylates HIF-1 alpha at 'Asp-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases.

Sequence similarities Contains 1 JmjC domain.

Cellular localization Nucleus.

Images



Western blot - Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829)

All lanes : Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate
Lane 2 : Mouse heart tissue lysate
Lane 3 : Mouse skeletal muscle tissue lysate
Lane 4 : Mouse hypothalamus tissue lysate
Lane 5 : Mouse colon tissue lysate
Lane 6 : Rat brain tissue lysate
Lane 7 : Rat heart tissue lysate
Lane 8 : Rat hypothalamus tissue lysate

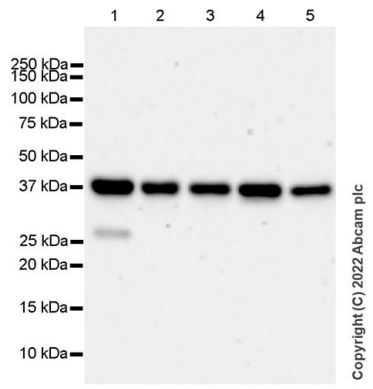
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 40 kDa
Observed band size: 42 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 92 seconds.



Western blot - Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829)

All lanes : Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829) at 1/1000 dilution

Lane 1 : A20 (mouse reticulum sarcoma B lymphocyte) whole cell lysate
Lane 2 : RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 3 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate
Lane 5 : C2C12 (mouse myoblast) whole cell lysate

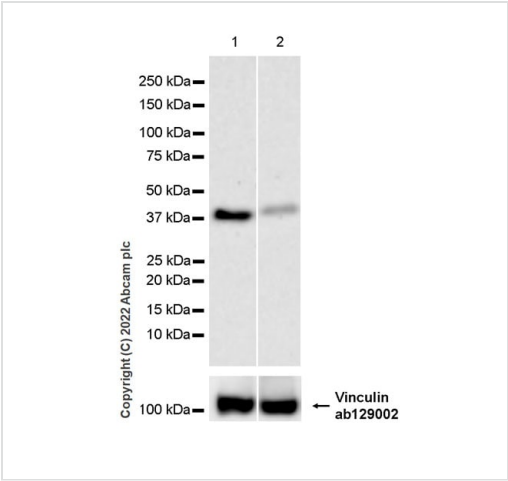
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 40 kDa
Observed band size: 42 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 136 seconds.



Western blot - Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829)

All lanes : Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829) at 1/1000 dilution

Lane 1 : C2C12 (mouse myoblast) transfected with scrambled siRNA control, whole cell lysate at 16 µg
Lane 2 : C2C12 transfected with siRNA specifically targeting HIF1AN/FIH-1, whole cell lysate at 20 µg

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 40 kDa
Observed band size: 42 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, anti- Vinculin antibody (**ab129002**) loading control staining at 1/10000 dilution.

Exposure time: 180 seconds.

Anti-HIF1AN/FIH-1 antibody [EPR27308-67] (ab307829)

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