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Datasheet for 209-301-F46

HIF2 alpha Antibody

Overview

Description:	Anti-HIF2 alpha (MOUSE) Monoclonal Antibody - 209-301-F46
Item No.:	209-301-F46
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Members of the hypoxia-inducible factor (HIF) family of transcription factors regulate the cellular response to hypoxia. HIF2-Alpha is involved in catecholamine homeostasis, vascular remodeling, physiological angiogenesis and adipogenesis. It is overexpressed in many cancerous tissues, but its exact role in tumour progression remains to be clarified. Studies suggest that in the case of non-small cell lung cancer, HIF2-Alpha actually is a promoter of tumor growth and progression in a solid tumor. Other data suggests that HIF2-Alpha is an important regulator of innate immunity, and therefore may be useful in the therapeutic target for treating inflammatory disorders and cancer.
Synonyms:	mouse anti-HIF2 alpha Antibody, mouse anti-HIF2a Antibody, ECYT4, EPAS1, HIF2alpha, HIF1 Alpha like factor, HLF, Hypoxia inducible factor 2 alpha, MOP2, PASD2, Endothelial PAS domain-containing protein 1, Basic-helix-loop-helix-PAS protein MOP2, Class E basic helix-loop-helix protein 73
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	EP190B
Format:	IgG1

Target Details

Gene Name:	EPAS1
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	HIF2 alpha Antibody was produced in mice by repeated immunizations raised against a recombinant protein corresponding to an internal region of human EPAS-1 (HIF2alpha).
Purity/Specificity:	Anti-HIF2α Antibody was purified by Protein G chromatography. This monoclonal antibody is specific for human HIF2α protein. A BLAST analysis was used to suggest cross-reactivity with HIF2α from human based on 100% homology with the immunizing sequence. Cross-reactivity with HIF2α from other sources has not been determined. Oxidative Stress/Cell Signaling research.
Relevant Links:	• NCBI - NP_001421.2 • GeneID - 2034 • UniProtKB - Q99814

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-HIF2α Antibody was tested in WB and IHC and recommended for use in ELISA and IF microscopy. Antibody is provided in PBS pH 7.4. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:200
IHC:	User Optimized
IP:	User Optimized
WB:	1:100 - 1:500

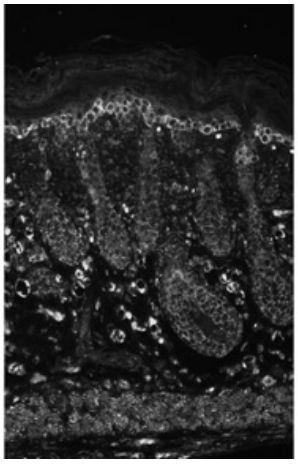
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	See application note.
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

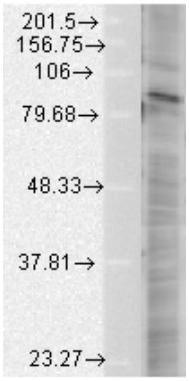
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of mouse anti-HIF2 alpha antibody. Tissue: mouse backskin sections. Primary Antibody: HIF2 alpha antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Nuclear.



Western Blot
Western Blot of mouse anti-HIF2 alpha antibody. Lane 1: CoCl treated HeLa cell lysates. Lane 2: none. Load: 35 µg per lane. Primary antibody: HIF2 alpha antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 96.5 kDa, ~90 kDa for HIF2α. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.