

Human HIF-2α/EPAS1 Antibody

Monoclonal Mouse IgG_{2A} Clone # 318404 Catalog Number: MAB2886

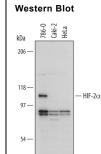
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human HIF-2α/EPAS1 in Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 318404
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human HIF-2α/EPAS1 Ser543-Thr870 Accession # Q99814
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human HIF-2 α /EPAS1 by Western Blot.

Western blot shows lysates of 786-O human renal cell adenocarcinoma cell line (HIF-2 α positive), Caki-2 human clear cell carcinoma epithelial cell line (HIF-2 α negative), and HeLa human cervical epithelial carcinoma cell line (HIF-2 α negative). PVDF Membrane was probed with 1 μ g/mL of Human HIF-2 α /FPAS1 Monoclonal Antibody (Catalog # MAB2886) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for HIF-2 α /FPAS1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Groun 1

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The hypoxia-inducible transcription factor 2α (HIF- 2α) is stabilized in hypoxic tissue and, similarly to HIF- 1α , complexes with Aryl hydrocarbon receptor nuclear translocator (ARNT). Both the HIF-1 and HIF-2 complexes bind hypoxia-response elements (HREs) in the promoters of many genes involved in adapting to an environment of insufficient oxygen or hypoxia. HIF-1 and HIF-2 do not appear completely redundant. Hypoxic tissue environments occur in vascular and pulmonary diseases as well as cancer, which illustrates the potentially broad impact of gene regulation by both HIF- 1α and HIF- 1α

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