Human HIF-2α/EPAS1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2444A
Catalog Number: MAB2997

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HIF-2α/EPAS1 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2444A
Purification	Protein A or G purified from cell 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.

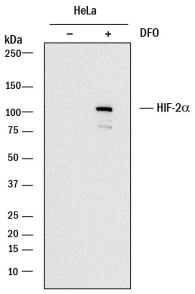
APPLICATIONS

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	2 µg/mL	See Below
Immunocytochemistry	3-25 µg/mL	See Below

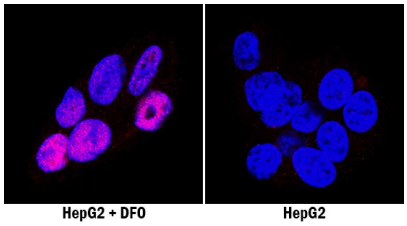
DATA

Western Blot



Detection of Human HIF-2α/EPAS1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line untreated (-) or treated (+) with 1 mM DFO for overnight. PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human HIF-2α/EPAS1 Monoclonal Antibody (Catalog # MAB2997) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for HIF-2α/EPAS1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



HIF-2α/EPAS1 in HepG2 Human Cell Line. HIF-2α/EPAS1 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line treated with DFO (left panel; positive stain) or untreated (right panel; negative stain) using Rabbit Anti-Human HIF-2α/EPAS1 Monoclonal Antibody (Catalog # MAB2997) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei in DFO treated cells. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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, although specific functions are only beginning to be elucidated. 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-2α.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449