

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



HIF-1α (C-Term) Polyclonal Antibody

Item No. 10006421

Overview and Properties

This vial contains 500 µl of peptide affinity-purified polyclonal antibody. Contents:

Synonyms: ARNT-interacting Protein, Hypoxia-Inducible Factor 1α Immunogen: Peptide from the C-terminal region of human HIF-1α Species Reactivity: (+) Human, mouse, and simian; other species not tested

Uniprot No.: Q16665 Form: Liquid

-20°C (as supplied) Storage:

Stability: ≥3 years

Storage Buffer: PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide

Host:

Applications: Immunohistochemistry (IHC) and Western blot (WB)*; the recommended starting

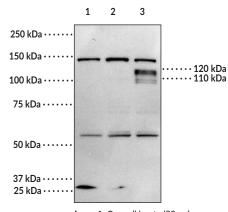
> dilution for IHC is 1:40 and 1:200 for WB for 1 hour incubation at room temperature when probing total cell lysates. Other applications were not tested, therefore optimal

working concentration/dilution should be determined empirically.

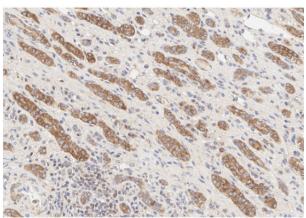
 * 6-8 $^{''}$ acrylamide gels (SDS-PAGE) are recommended for loading gels with HIF-1 α containing samples to allow maximal separation of high molecular weight proteins with

similar M.

Images



Lane 1: Cos cell lysate (30 µg) Lane 2: Cos cell lysate (40 µg) Lane 3: CoCl2 treated Cos cell lysate (30 µg)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human kidney tissue after hee induced antigen retrieval in pH, 6.0 citrate buffer. After incubation with HIF-1α (C-Term) Polyclon: Antibody (Item No. 10006421), at a 1:40 dilution, slides were incubated with biotinylated secondar antibody, follwed by alkaline phosphatase-streptavidin and chromogen (DAB).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Hypoxia-Inducible Factor 1α (HIF- 1α) is a transcription factor that accumulates under low-oxygen conditions. Following hypoxic stimulus and cytoplasmic accumulation, HIF- 1α migrates to the nucleus where, with other transcription factors, it drives the production of stress-adaptive proteins. This response is essential for maintenance of normal oxidative physiology, however overexpression in cancer cells promotes tumor survival. HIF- 1α is an endothelial PAS domain protein 1 (EPAS-1) family member with phosphorylation dependent activities. HIF- 1α will migrate to the apparent molecular weights of 110-125 kDa (by SDS-PAGE) depending on phosphorylation status. This vial contains peptide affinity-purified IgG directed against the C-terminus of HIF- 1α . The antibody should be stored at -20°C as supplied. Positive controls include human, primate, and mouse cell cultures grown in hypoxic conditions or treated with prolyl hydroxylase inhibitors such as DMOG (Item No. 71210), 2,4-DPD (Item No. 71200), desferrioxamine, or cobalt chloride.

References

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