ARG41508
anti-HIF-1 beta antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HIF-1 beta
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HIF-1 beta
Species	Human
Immunogen	Synthetic peptide of Human HIF-1 beta.
Conjugation	Un-conjugated
Alternate Names	HIF1BETA; Hypoxia-inducible factor 1-beta; Aryl hydrocarbon receptor nuclear translocator; HIF-1-beta; Class E basic helix-loop-helix protein 2; Dioxin receptor, nuclear translocator; HIF1B; TANGO; HIF1-beta; bHLHe2; ARNT protein; HIF-1beta

Application Instructions

Application table

Application	Dilution
IHC-P	1:500 - 1:2000
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Human fetal kidney
Observed Size	~ 87 kDa

Properties

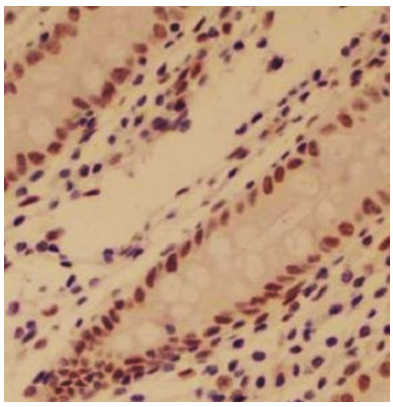
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

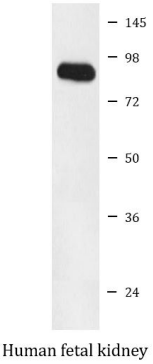
Gene Symbol	ARNT
Gene Full Name	aryl hydrocarbon receptor nuclear translocator
Background	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]
Function	Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The complex then initiates transcription of genes involved in the activation of PAH procarcinogens. The heterodimer with HIF1A or EPAS1/HIF2A functions as a transcriptional regulator of the adaptive response to hypoxia. [UniProt]
Calculated Mw	87 kDa
Cellular Localization	Nucleus. [UniProt]

Images



ARG41508 anti-HIF-1 beta antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon tissue stained with ARG41508 anti-HIF-1 beta antibody.



Human fetal kidney

ARG41508 anti-HIF-1 beta antibody WB image

Western blot: Human fetal kidney lysate stained with ARG41508 anti-HIF-1 beta antibody.