



SS18-SSX antibody

Rabbit Monoclonal antibody(Mab)
Catalog # AD80607

Specification

SS18-SSX antibody - Product info

Application IHC-P
Primary Accession Q16665
Reactivity Human
Host Rabbit
Clonality Monoclonal
Calculated MW 92670 Da

SS18-SSX antibody - Additional info

Gene ID **3091**

Other Names

Hypoxia-inducible factor 1-alpha, HIF-1-alpha, HIF1-alpha, ARNT-interacting protein, Basic-helix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78, bHLHe78, Member of PAS protein 1, PAS domain-containing protein 8, HIF1A {ECO:0000303|PubMed:7539918, ECO:0000312|HGNC:HGNC:4910}

Dilution IHC-P~~N/A

Storage

Maintain refrigerated at 2-8°C

Precautions SS18-SSX antibody is for research use only

and not for use in diagnostic or

therapeutic procedures.

SS18-SSX antibody - Protein Information

Name HIF1A {ECO:0000303|PubMed:7539918, ECO:0000312|HGNC:HGNC:4910}

Function Functions as a master transcriptional

regulator of the adaptive response to

hypoxia (PubMed: 11292861,

PubMed: 11566883, PubMed: 15465032, PubMed: 16973622, PubMed: 17610843, PubMed: 18658046, PubMed: 20624928, PubMed: 22009797, PubMed: 9887100, PubMed: 30125331). Under hypoxic

conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor,

HILPDA, and other genes whose protein





products increase oxygen delivery or

facilitate metabolic adaptation to hypoxia

(PubMed: 11292861, PubMed: 11566883, PubMed: 15465032, PubMed: 16973622, PubMed: 17610843, PubMed: 20624928,

PubMed: <u>17610843</u>, PubMed: <u>20624928</u>, PubMed: <u>22009797</u>, PubMed: <u>9887100</u>,

PubMed:30125331). Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of

ischemic disease (PubMed:22009797). Heterodimerizes with ARNT; heterodimer

binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters (By similarity).

Activation requires recruitment of transcriptional coactivators such as CREBBP and EP300 (PubMed: 9887100,

PubMed: 16543236). Activity is enhanced by interaction with NCOA1 and/or NCOA2

(PubMed: 10594042). Interaction with redox regulatory protein APEX1 seems to activate CTAD and potentiates activation

by NCOA1 and CREBBP (PubMed: 10202154, PubMed: 10594042). Involved in the axonal distribution and transport of mitochondria

in neurons during hypoxia

(PubMed: 19528298).
Cytoplasm. Nucleus. Nucleus speckle {ECO:0000250|UniProtKB:Q61221}.

Note=Colocalizes with HIF3A in the nucleus and speckles (By similarity). Cytoplasmic in

normoxia, nuclear translocation in response to hypoxia (PubMed:9822602)

{ECO:0000250|UniProtKB:Q61221, ECO:0000269|PubMed:9822602}

EXPRESSED IN MEDITION ENGINEERS EXPRESSED IN MEDITION ENGINEERS WITH HIGHEST levels in kidney and heart. Overexpressed in the majority of common human cancers and their metastases, due to the presence of intratumoral hypoxia and as a result of mutations in genes encoding oncoproteins and tumor suppressors. A higher level expression seen in pituitary tumors as

compared to the pituitary gland.

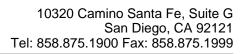
Cellular Location

Tissue Location

SS18-SSX antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety





• <u>Cell Culture</u> SS18-SSX antibody - Images