

HIF-1 α Mouse mAb (AM10011)

Key Features

Host Species:	Mouse
Reactivity:	Human, Mouse, Monkey
Applications:	WB, IHC, IF, ELISA
MW:	93kD (Calculated)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:500-2000
IF:	1:200-1000
ELISA:	1:10000

Not yet tested in other applications.

Storage	-15°C to -25°C/1 year (Do not lower than -25°C)
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Basic Information

Clonality	Monoclonal
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Immunogen Information

Specificity	HIF-1 α Monoclonal Antibody detects endogenous levels of HIF-1 α protein.
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Target Information

Gene name	HIF1A
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Protein Name	Hypoxia-inducible factor 1-alpha
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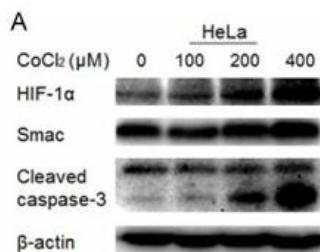
Organism	Gene ID	UniProt ID
Human	3091	Q16665
Mouse	15251	Q61221

Cellular Localization	Cytoplasm . Nucleus . Nucleus speckle . Colocalizes with HIF3A in the nucleus and speckles (By similarity). Cytoplasmic in normoxia, nuclear translocation in response to hypoxia (PubMed:9822602).
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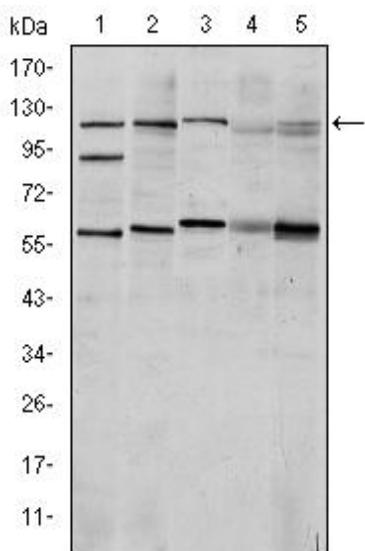
Tissue specificity	Expressed in most tissues with highest levels in kidney and heart. Overexpressed in the majority of common human cancers and their metastases, due to the presence of intratumoral hypoxia and as a result of mutations in genes encoding oncoproteins and
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tumor suppressors. A higher level expression seen in pituitary tumors as compared to the pituitary gland.

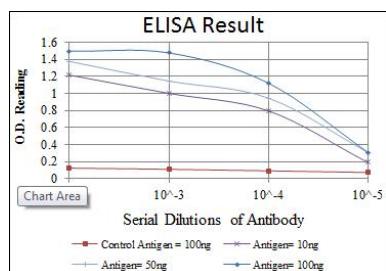
Validation Data



Sun, Lei, et al. "Beclin-1-independent autophagy mediates programmed cancer cell death through interplays with endoplasmic reticulum and/or mitochondria in colbat chloride-induced hypoxia." American journal of cancer research 5.9 (2015): 2626.



Western Blot analysis using HIF-1 α Monoclonal Antibody against Cos7 (1), HeLa (2), Jurkat (3), RAJI (4) and NIH/3T3 (5) cell lysate.



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