

Product datasheet for AP20633PU-M

HIF-1 alpha (HIF1A) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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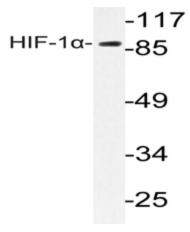
Product Type:Primary AntibodiesApplications:IHC, WBRecommended DilutionWestern Blot: 1/500-1/1000, Immunohistochemistry on Paraffin Sections: 1/50-1/200.Reactivity:Human, Mouse, RatHost:RabbitClonality:PolyclonalSpecificity:This antibody detects endogenous levels of HIF-1alpha protein. (region surrounding Lys377)Formulation:Phosphate Buffered Saline (PBS), pH-7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium AzideFoncentration:1.0 mg/mlForngation:Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer, Avoid repeated freezing and thawing.Stability:Shell file: one year from despatch.Predicted Protein SizeYopXia inducible factor 1 alpha subunitPredicted Protein SizeIntrez Gene 15251 MouseEntrez Gene 29560 RatEntrez Gene 3091 Human Qief665		
Recommended DilutionWestern Blot: 1/500 -1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.Reactivity:Human, Mouse, RatHost:RabbitClonality:PolyclonalSpecificity:This antibody detects endogenous levels of HIF-1alpha protein. (region surrounding Lys377)Formulation:Phosphate Buffered Saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium AzideConcentration:1.0 mg/mlPurification:UnconjugatedKorage:Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.Predicted Protein Size-90, 120 kDaGene Name:hypoxia inducible factor 1 alpha subunitDatabase Link:Entrez Gene 15251 MouseEntrez Gene 29560 RatEntrez Gene 3091 Human	Product Type:	Primary Antibodies
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Database Link: Entrez Gene 15251 MouseEntrez Gene 29560 RatEntrez Gene 3091 Human	Predicted Protein Size:	~90, 120 kDa
	Gene Name:	hypoxia inducible factor 1 alpha subunit
	Database Link:	



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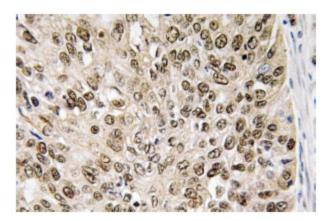
	HIF-1 alpha (HIF1A) Rabbit Polyclonal Antibody – AP20633PU-M
Background:	Cell growth and viability is compromised by oxygen deprivation (hypoxia). Hypoxia-inducible factors, including HIF-1 α , Arnt 1 (also designated HIF-1 β), EPAS-1 (also designated HIF-2 α) and HIF-3 α , induce glycolysis, erythropoiesis and angiogenesis in order to restore oxygen homeostasis. Hypoxia-inducible factors are members of the Per-Arnt-Sim (PAS) domain transcription factor family. In response to hypoxi, a HIF-1 α is upregulated and forms a heterodimer with Arnt 1 to form the HIF-1 complex. The HIF-1 complex recognizes and binds to the hypoxia responsive element (HRE) of hypoxia-inducible genes, thereby activating transcription. Hypoxia-inducible expression of some genes, such as Glut-1, p53, p21 or Bcl-2, is HIF-1 α dependent, whereas expression of others, such as p27, GADD 153 or HO-1, is HIF-1 α independent. EPAS-1 and HIF-3 α have also been shown to form heterodimeric complexes with Arnt 1 in response to hypoxia.
Synonyms:	HIF-1 alpha, Hypoxia-inducible factor 1 alpha, ARNT-interacting protein, Member of PAS protein 1, Basic-helix-loop-helix-PAS protein MOP1, BHLHE78
Protein Families:	Transcription Factors
Protein Pathways	mTOR signaling pathway, Pathways in cancer, Renal cell carcinoma

Product images:



Western blot analysis of HIF1 alpha antibody (Cat.-No [AP20633PU-N]) in extracts from LOVO cells.

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Immunohistochemistry analyzes of HIF1 alpha antibody (Cat.-No [AP20633PU-N]) in paraffinembedded human brain tissue.

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