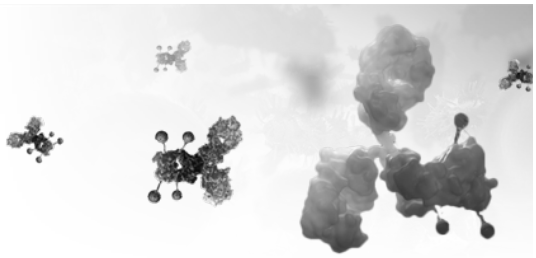

Mouse anti-Human Hif2 Alpha Monoclonal antibody, clone Ijg3bmqib348 (CABT-50496MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a transcription factor involved in the induction of genes regulated by oxygen, which is induced as oxygen levels fall. The encoded protein contains a basic-helix-loop-helix domain protein dimerization domain as well as a domain found in proteins in signal transduction pathways which respond to oxygen levels. Mutations in this gene are associated with erythrocytosis familial type 4.
Specificity	CABT-50496MH specifically recognizes human HIF2 alpha (HIF2A), otherwise known as EPAS-1 (endothelial PAS domain-containing protein 1), a nuclear transcription factor, selectively expressed by endothelial cells, which acts as an inducer of oxygen-regulated genes, during oxygen depravation (hypoxia).HIF2A is involved in the regulation of vascular endothelial growth factor (VEGF) expression, and is implicated in vasculogenesis. Mutations in HIF2A are responsible for the autosomal dominant disorder erythrocytosis familial type 4 (ECYT4), characterized by elevated haemoglobin concentration, increased serum red blood cell mass, and haematocrit.
Target	EPAS1
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	Ijg3bmqib348
Conjugate	Unconjugated
Applications	Immunohistology - Paraffi
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

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Format	Purified IgG - liquid
Size	200 µg
Buffer	##Storage Buffer:## Store at +4°C or at -20°C if preferred.Storage in frost-free freezers is not recommended.This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. ##Buffer Stabilisers:## Buffer Solution: Phosphate buffered saline. Preservative Stabilisers: 0.09% Sodium Azide (NaN3).
Preservative	None
Storage	At -20°C for one year.

BACKGROUND

Keywords	EPAS1;endothelial PAS domain protein 1;endothelial PAS domain-containing protein 1;bHLHe73;HIF 1 alpha like factor;HIF2A;HLF;MOP2;PASD2;EPAS-1;HIF2-alpha;HIF-2-alpha;HIF-1alpha-like factor;HIF-1-alpha-like factor;member of PAS protein 2;PAS domain-containing protein 2;hypoxia-inducible factor 2 alpha;hypoxia-inducible factor 2-alpha;basic-helix-loop-helix-PAS protein MOP2;class E basic helix-loop-helix protein 73;ECYT4;NP_001421;NM_001430;Q99814;OTTHUMP00000159033;Basic-helix-loop-helix-PAS protein MOP2;Class E basic helix-loop-helix protein 73;Hypoxia-inducible factor 2-alpha;Member of PAS protein 2;BHLHE73;HGNC: 3374;Entrez Gene: 2034;Ensembl: ENSG00000116016;OMIM: 603349;UniProtKB: Q99814;EPAS1_HUMAN;

GENE INFORMATION

Gene Name	EPAS1 endothelial PAS domain protein 1 [Homo sapiens]
Official Symbol	EPAS1
Synonyms	EPAS1; endothelial PAS domain protein 1; endothelial PAS domain-containing protein 1; bHLHe73; HIF 1 alpha like factor; HIF2A; HLF; MOP2; PASD2; EPAS-1; HIF2-alpha; HIF-2-alpha; HIF-1alpha-like factor; HIF-1-alpha-like factor; member of PAS protein 2; PAS domain-containing protein 2; hypoxia-inducible factor 2 alpha; hypoxia-inducible factor 2-alpha; basic-helix-loop-helix-PAS protein MOP2; class E basic helix-loop-helix protein 73; ECYT4;
Entrez Gene ID	2034

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Protein Refseq	NP_001421
UniProt ID	B3KW07
Chromosome Location	2p21-p16
Pathway	Adipogenesis; HIF-2-alpha transcription factor network; Pathways in cancer; Renal cell carcinoma; Renal cell carcinoma; Signaling events mediated by VEGFR1 and VEGFR2
Function	DNA binding; histone acetyltransferase binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity; transcription factor binding;

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