

Anti-EPAS1 Antibody (7C2)

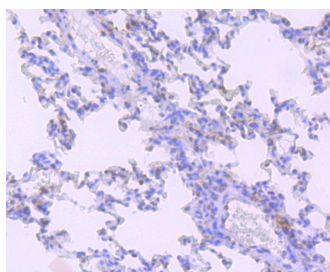
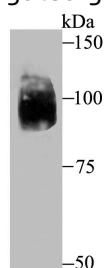
Product Details

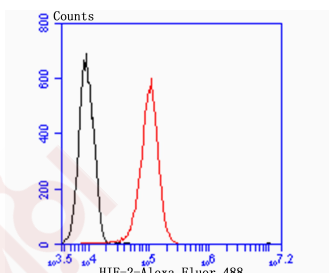
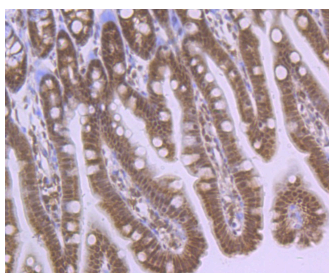
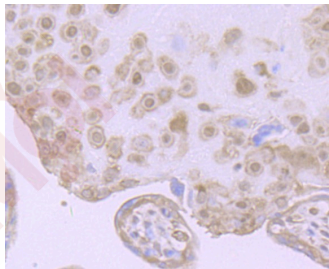
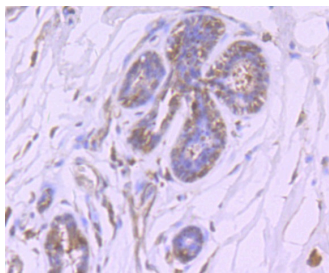
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 96 kDa.
Clone:	7C2
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of HIF-2 alpha on SiHa cell lysate using anti-HIF-2 alpha antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat lung tissue using anti-HIF-2 alpha antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-HIF-2 alpha antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-HIF-2 alpha antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-HIF-2 alpha antibody. Counter stained with hematoxylin.
6. Flow cytometric analysis of HUVEC cells with HIF-2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q99814

Synonyms: Class E basic helix-loop-helix protein 73;HIF2A;Member of PAS protein 2;EPAS-1;Hypoxia-inducible factor 2-alpha;HIF-2-alpha;MOP2;Basic-helix-loop-helix-PAS protein MOP2; bHLHe73;PAS domain-containing protein 2;Endothelial PAS domain-containing protein 1;HLF; HIF2-alpha;PASD2;HIF-1-alpha-like factor

Research Background

Cell growth and viability is compromised by oxygen deprivation (hypoxia). Hypoxia-inducible factors, including HIF-1 α , HIF-1 β (also designated Arnt 1), 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 hypoxia, 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.

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