

HIF-1 α (K377) polyclonal antibody

Catalog: BCP00868

Host: Rabbit

Reactivity: Human,Rat,Mouse

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 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 120 kDa

Swiss-Prot:

Q16665

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

IP: 1:50~1:200

Storage&Stability:

Store at 4 $^{\circ}$ C short term. Aliquot and store at -20 $^{\circ}$ C long term. Avoid freeze-thaw cycles.

Specificity:

HIF-1 α (K377) polyclonal antibody detects endogenous levels of HIF-1 α protein.

DATA:

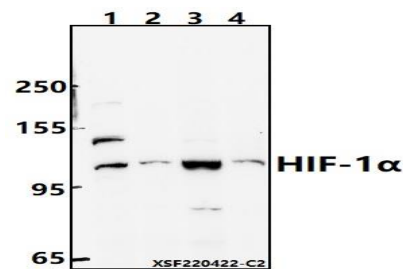


Western blot (WB) analysis of HIF-1 α (K377) pAb at 1:1000 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:A549 whole cell lysate(40ug)

Lane3:EC9706 whole cell lysate(40ug)



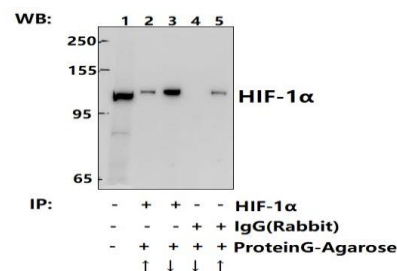
Western blot (WB) analysis of HIF-1 α (K377) polyclonal antibody at 1:1000 dilution

Lane1:PC12 whole cell lysate(40ug)

Lane2:CT26 whole cell lysate(40ug)

Lane3:A549 whole cell lysate(40ug)

Lane4:PC3 whole cell lysate(40ug)



Immunoprecipitation of A549 cell lysates using HIF-1 α (K377) pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4 and lane 5). Lane 1 is 30% input. The western blot was probed using HIF-1 α (K377) pAb.

Note:

For research use only, not for use in diagnostic procedure.