EIF2AK1 polyclonal antibody

Catalog: BS61712 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

HRI (heme-regulated inhibitor kinase) phosphorylates the α subunit of eIF2α kinase, which plays an important role in translational regulation during heme deficiency. HRI is activated in response to a number of environmental conditions, including heme deficiency, heat shock, and oxidative stress. Autophosphorylation is essential for the activation of HRI, which causes an arrest of initiation of protein synthesis. Both HSP 90 and HSC 70 are necessary for all stress-induced HRI activation. Furthermore, HSC 70 is required for the folding and transformation of HRI into an active kinase and is subsequently required to negatively attenuate the activation of transformed HRI. Both the N-terminus and the kinase insertion domain, which are unique to HRI, are involved in the heme binding and the heme regulation of HRI. The human HRI gene maps to chromosome 7p22.1 and encodes a 630 amino acid protein expressed mainly in erythroid cells.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 71 kDa

Swiss-Prot:

Q9BQI3

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: 1:500~1:1000

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

EIF2AK1 polyclonal antibody detects endogenous levels of EIF2AK1 protein.

DATA:

Western blot (WB) analysis of EIF2AK1 polyclonal antibody at 1:500 dilution

Lane1:K562 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:PC12 whole cell lysate(40ug)

Lane4:AML-12whole cell lysate(40ug)

Note:

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

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