abcam

Product datasheet

Recombinant Human Neuroglobin protein ab63278

2 References 2 Images

Description

Product name	Recombinant Human Neuroglobin protein
Purity	> 95 % SDS-PAGE. Please filter the product by an appropriate sterile filter before using it in the cell culture.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	M-ERPEPELIR QSWRAVSRSP LEHGTVLFAR LFALEPDLLP LFQYNCRQFS SPEDCLSSPE FLDHIRKVML VIDAAVTNVE DLSSLEEYLA SLGRKHRAVG VKLSSFSTVG ESLLYMLEKC LGPAFTPATR AAWSQLYGAV VQAMSRGWDG E

Specifications

Our **Abpromise guarantee** covers the use of **ab63278** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituents: 0.134% PBS, 0.58% Sodium chloride

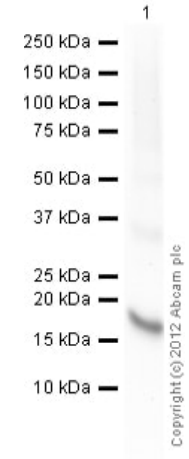
General Info

Function	Involved in oxygen transport in the brain. Hexacoordinate globin, displaying competitive binding of oxygen or the distal His residue to the iron atom. Not capable of penetrating cell membranes. The deoxygenated form exhibits nitrite reductase activity inhibiting cellular respiration via NO-binding to cytochrome c oxidase. Involved in neuroprotection during oxidative stress. May exert its anti-apoptotic activity by acting to reset the trigger level of mitochondrial cytochrome c release necessary to commit the cells to apoptosis.
Tissue specificity	Predominantly expressed in brain, the strongest expression is seen in the frontal lobe, the subthalamic nucleus and the thalamus.
Sequence similarities	Belongs to the globin family.
Post-translational modifications	A redox disulfide bond regulates the heme pocket coordination and the rate of nitrite reduction to NO. Phosphorylated in vitro by ERK1, ERK2 and PKA, and in vivo during hypoxia. Phosphorylation increases nitrite reductase activity.
Cellular localization	Perikaryon. Cytoplasm. Mitochondrion.

Images

SDS-PAGE - Recombinant Human Neuroglobin protein (ab63278)

LANE 1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa. LANE 2. reduced and heated sample, 5µg/lane. LANE 3. non-reduced and non-heated sample, 5µg/lane.



Western blot - Recombinant Human Neuroglobin protein (ab63278)

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