Datasheet for ABIN7317092

DYRK3 Protein (GST tag,His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	DYRK3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DYRK3 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human DYRK3/REDK Protein (His & GST Tag)(Active)
Sequence:	Met 1-Ser 588
Characteristics:	A DNA sequence encoding the human DYRK3 isoform 1 (O43781-1) (Met 1-Ser 588) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 22 nmol/min/mg using synthetic DYRKtide peptide (RRRFRPASPLRGPPK) as substrate.

Target Details

Target:	DYRK3

Target Details

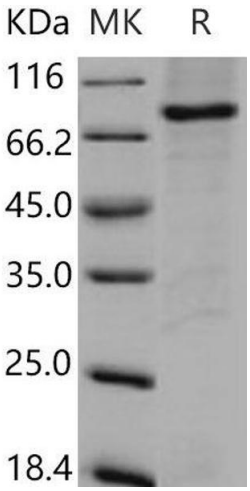
Alternative Name:	DYRK3/REDK (DYRK3 Products)
Background:	Background: Dual specificity tyrosine-phosphorylation-regulated kinase 3, also known as Regulatory erythroid kinase, REDK and DYRK3, is a nucleus protein which belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and MNB/DYRK subfamily. DYRKs are an emerging family of dual-specificity kinases that play key roles in cell proliferation, survival, and development. DYRK3 contains one protein kinase domain. Isoform 1 and isoform 2 of DYRK3 are highly expressed in testis and in hematopoietic tissue such as fetal liver, and bone marrow. Isoform 2 of DYRK3 is the predominant form in testis. Isoform 1 of DYRK3 is the predominant form in fetal liver and bone marrow. Isoform 1 and isoform 2 are present at low levels in heart, pancreas, lymph node, and thymus. DYRK3 is a negative regulator of EPO-dependent erythropoiesis. It may place an upper limit on red cell production during stress erythropoiesis. DYRK3 inhibits cell death due to cytokine withdrawal in hematopoietic progenitor cells. It may also act by regulating CREB/CRE signaling. DYRK3 proved to effectively inhibit NFAT (nuclear factor of activated T cells) transcriptional response pathways and to co-immunoprecipitate with NFATc3. DYRK3 attenuates (and possibly apportions) red cell production selectively during anemia. Synonym: DYRK5;hYAK3-2;RED;REDK
Molecular Weight:	93.5 kDa
Pathways:	Negative Regulation of Hormone Secretion, Regulation of Lipid Metabolism by PPARalpha

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 0.5 mM PMSF, 10 % glycerol, pH 8.0
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.