Datasheet for ABIN5021772

Biliverdin Reductase Protein (full length)

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Overview

Quantity:	50 µg
Target:	Biliverdin Reductase (BLVRA)
Protein Characteristics:	full length
Origin:	Rat
Source:	Rat
Protein Type:	Native
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MDAEPKRKFG VVVVGVGRAG SVRLRDLKDP RSAAFLNLIG FVSRRELGSL DEVRQISLED ALRSQEIDVA YICSESSSHE DYIRQFLQAG KHVLVEYPMT LSFAAAQELW ELAAQKGRVL HEEHVELLME EFEFLRREVL GKELLKGSLR FTASPLEEER FGFPAFSGIS RLTWLVSLFG ELSLISATLE ERKEDQYMKM TVQLETQNKG LLSWIEEKGP GLKRNRYVNF QFTSGSLEEV PSVGVNKNIF LKDQDIFVQK LLDQVSAEDL AAEKKRIMHC LGLASDIQKL CHQKK
Specificity:	~36 kDa
Purification:	Ion-exchange Purified
Purity:	>90% pure using SDSPAGE analysis.

Target Details

Target:	Biliverdin Reductase (BLVRA)
Alternative Name:	BVR (BLVRA Products)

Target Details

Background:	Biliverdin Reductase (BVR) is a cytoplasmic enzyme that catalyzes the conversion of biliverdin to bilirubin by converting a double bond between the second and third pyrrole ring into a single bond (1). It is ubiqutiously expressed in all tissues- it occurs in cells and brain regiuons that already display HO-1 and HO-2, but also in regions and cell types with potential to induce stress proteins. It is unique among all enzymes in having two pH optima, using a different cofactor at each pH range, NADH at pH 7.0 and NADPH at pH 8.7 (2). It is not inactivated by heat shock, and have shown to abate inflammation, oxidative stress and apoptosis (3).
Gene ID:	116599
NCBI Accession:	NP_446302
UniProt:	P46844

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	This product has been certified >90% pure using SDSPAGE analysis.
Restrictions:	For Research Use only

Handling

Concentration:	Lot specific
Buffer:	10 mM Tris pH 7.5, 0.1 mM EDTA, 0.2 mM DTT, 20 % glycerol
Storage:	-80 °C