Datasheet for ABIN2482109

anti-Biliverdin Reductase antibody (FITC)

2 Images

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Overview

Quantity:	100 µg
Target:	Biliverdin Reductase (BLVRA)
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Biliverdin Reductase antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat native full-length BVR purified from liver tissue
Specificity:	Detects ~36 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein A Purified

Target Details

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

Target Details

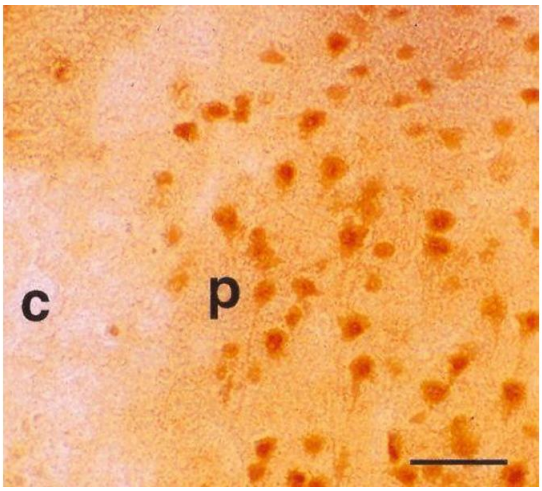
	proteins. It is unique among all enzymes in having two pH optima, using a different cofactor at each pH range, NADH at pH 7.0 and NADPH at pH 8.7 (2). It is not inactivated by heat shock, and have shown to abate inflammation, oxidative stress and apoptosis (3).
Gene ID:	116599
NCBI Accession:	NP_446302
UniProt:	P46844

Application Details

Application Notes:	• WB (1:500) • IHC (1:1000) • IP (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	2 µg/ml of ABIN2482109 was sufficient for detection of BVR in 20 µg of mixed human cell line lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

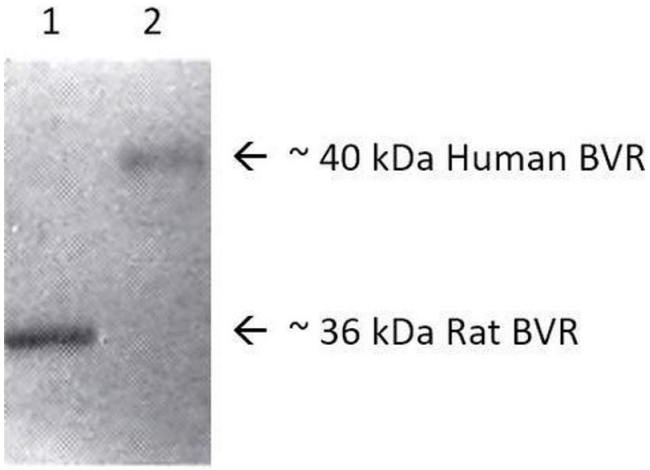
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-BVR Polyclonal Antibody . Tissue: Ischemic brain. Species: Rat. Primary Antibody: Rabbit Anti-BVR Polyclonal Antibody at 1:1000. C = ischemic core, P = ischemic penumbra.



Western Blotting

Image 2. Western blot analysis of Human, Rat Brain cell lysates showing detection of BVR protein using Rabbit Anti-BVR Polyclonal Antibody . Lane 1: Rat Brain. Lane 2: Human Brain lysates. Load: 10 µg. Primary Antibody: Rabbit Anti-BVR Polyclonal Antibody at 1:1000.