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BVR Antibody
Catalog # ASM10473

Specification

BVR Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	P46844
Other Accession	NP_446302.1
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**

Description
Rabbit Anti-Rat BVR Polyclonal

Target/Specificity
Detects ~36kDa.

Other Names
Biliverdin Reductase Antibody, Biliverdin IX alpha reductase Antibody, Biliverdin reductase A Antibody, Biliverdin-IX alpha-reductase Antibody, BLVR A Antibody, BLVR Antibody, Blvra Antibody, BVR A Antibody, BVRA Antibody, Zinc metalloprotein Antibody, zinc-metalloprotein Antibody

Immunogen
Rat native full-length BVR purified from liver tissue

Purification
Protein A Purified

Storage	**-20ºC**

Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
2 µg/ml of SPC-213 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.

Cellular Localization
Cytoplasm

BVR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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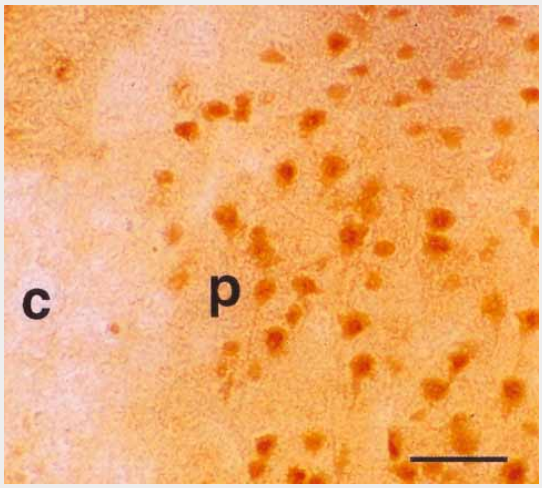
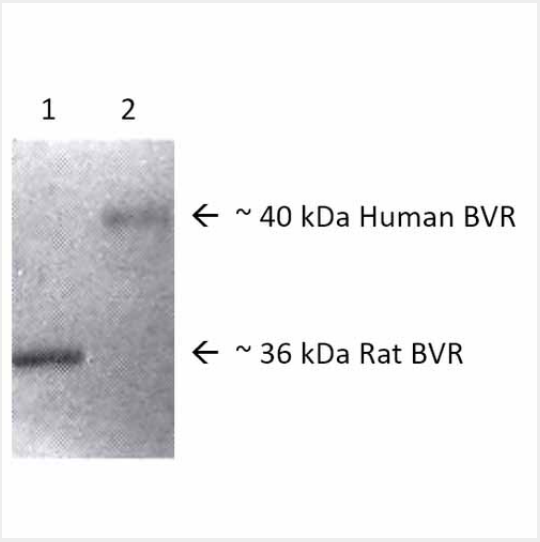
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BVR Antibody - Images



Immunohistochemistry analysis using Rabbit Anti-BVR Polyclonal Antibody (ASM10473). Tissue: Ischemic brain. Species: Rat. Primary Antibody: Rabbit Anti-BVR Polyclonal Antibody (ASM10473) at 1:1000. C = ischemic core, P = ischemic penumbra.



Western blot analysis of Human, Rat Brain cell lysates showing detection of BVR protein using Rabbit Anti-BVR Polyclonal Antibody (ASM10473). Lane 1: Rat Brain. Lane 2: Human Brain lysates. Load: 10 µg. Primary Antibody: Rabbit Anti-BVR Polyclonal Antibody (ASM10473) at 1:1000.

BVR Antibody - 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 pH7.0 and NADPH at pH8.7 (2). It is not inactivated by heat shock, and have shown to abate inflammation, oxidative stress and apoptosis (3).

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1. Singleton J.W., Laster L. (1965). J Biol Chem. 240: 4780-4789.
2. Kutty R.K., Maines M.D. (1981) J Biol Chem. 256: 3956-3962.
3. Mishra M., Ndisand J.F. (2014) Curr Pharm Des. 20(9): 1370-1391.