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Datasheet for ABIN2481995

## anti-Biliverdin Reductase antibody (Atto 594)

### 2 Images

#### Overview

Quantity:	100 µg
Target:	Biliverdin Reductase (BLVRA)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Biliverdin Reductase antibody is conjugated to Atto 594
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunofluorescence (IF)

#### Product Details

Immunogen:	Human native full-length BVR
Specificity:	Detects ~40-42 kDa.
Cross-Reactivity:	Human
Purification:	Protein A Purified

#### Target Details

Target:	Biliverdin Reductase (BLVRA)
Alternative Name:	BVR ( <a href="#">BLVRA Products</a> )
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 ubiquitously expressed in all tissues- it occurs in cells and brain regions that

## Target Details

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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: 644

NCBI Accession: [NP\\_000703](#)

UniProt: [P53004](#)

## Application Details

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Application Notes:

- WB (1:2000)
- ICC/IF (1:120)
- IP (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2481995 was sufficient for detection of BVR in 10 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

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Format: Liquid

Concentration: 1 mg/mL

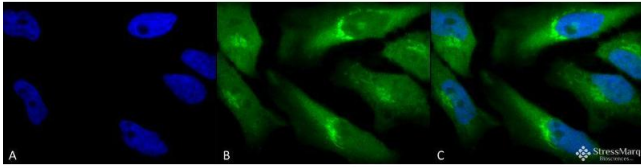
Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

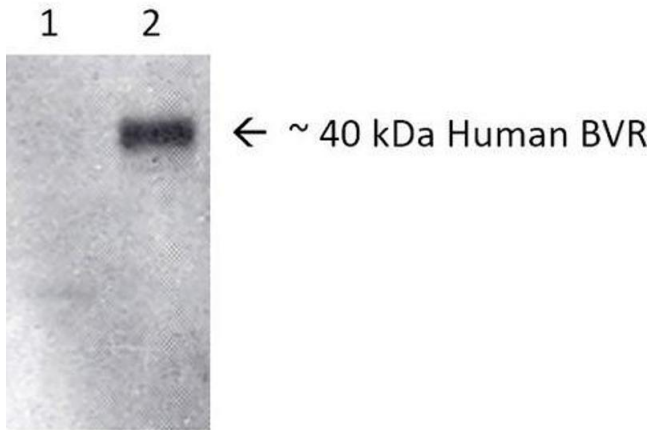
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



### Immunofluorescence (fixed cells)

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-BVR Polyclonal Antibody . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-BVR Polyclonal Antibody at 1:120 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Exosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-BVR Antibody. (C) Composite.



### 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.