

## Biliverdin Reductase Polyclonal Antibody

### ORDERING INFORMATION

**Catalog no.:** 56257-100

**Format:** 100ug Protein A-purified antibody in PBS, pH 7.2, 50% glycerol, 0.09% sodium azide.

### BACKGROUND

In mammalian species, biliverdin reductase (BVR) converts tetrapyrrole to bilirubin. BVR is a unique enzyme in that it has two pH optima (6.8 and 8.7) and uses different cofactors at each pH optimum: NADH at pH 6.8 and NADPH at pH 8.7. BVR displays pI and molecular mass microheterogeneity which are likely a result of post-translational modifications. BVR is not inactivated by heat shock, and its microheterogeneity is preserved under thermal stress. Human BVR is a longer polypeptide than the rat equivalent (41-42kDa vs. 33kDa), although human and rat BVR share some epitopes and show immunochemical cross-reactivity.

### SPECIFICATION SUMMARY

**Antigen:** Recombinant rat liver biliverdin reductase.

**Accession no.:** P46844

**Gene ID:** 116599

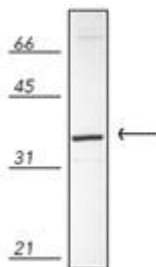
**Host Species:** Rabbit

**Antibody Class:** Polyclonal

**Specificity:** This antibody recognizes human, mouse, rat, porcine, and hamster biliverdin reductase.

### APPLICATIONS

**Immunoblotting:** Use at 1-5ug/ml. A band of ~33kDa (rat) and ~41-42kDa (human) is detected.

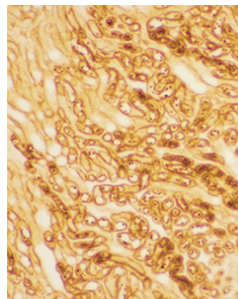


Detection of biliverdin reductase in rat embryo Rat-2 cell lysate.

These are recommended concentrations.

Endusers should determine optimal concentrations for their application.

**Immunohistochemistry:** use at 1-10ug/ml.



Detection of biliverdin reductase in mouse brain purkinje cells after ischemic injury.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze/thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures*