

# CRYZ Polyclonal antibody

Catalog Number: 31629-1-AP

## Basic Information

**Catalog Number:**

31629-1-AP

**Size:**

450 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG35066

**GenBank Accession Number:**

BC039578

**GeneID (NCBI):**

1429

**UNIPROT ID:**

Q08257

**Full Name:**

crystallin, zeta (quinone reductase)

**Calculated MW:**

35 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB 1:1000-1:4000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse

**Positive Controls:**

WB : mouse kidney tissue, mouse liver tissue

## Background Information

CRYZ (Zeta-crystallin) also called quinone oxidoreductase and NADPH:quinone reductase, and it does not have alcohol dehydrogenase activity. It binds NADP and acts through a one-electron transfer process. Orthoquinones, such as 1,2-naphthoquinone or 9,10-phenanthrenequinone, are the best substrates (in vitro) for CRYZ. It may act in the detoxification of xenobiotics. CRYZ interacts with (AU)-rich elements (ARE) in the 3'-UTR of target mRNA species and enhances the stability of mRNA coding for BCL2. NADPH binding interferes with mRNA binding (PMID: 17497241; 20103721).

## Storage

**Storage:**

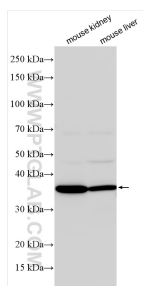
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31629-1-AP (CRYZ antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.