

# CRYZL1 (E-20): sc-83234

## BACKGROUND

Crystallins are divided into two classes: taxon-specific, or enzyme, and ubiquitous. The ubiquitous crystallins constitute the major proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. The taxon-specific crystallins, also designated phylogenetically-restricted crystallins, include  $\lambda$ -,  $\mu$ -, and  $\zeta$ -crystallin, which all share homology to various enzymes.  $\zeta$ -crystallin/quinone reductase is present at low levels in human lens tissue. It has NADPH-dependent quinone reductase activity distinct from other known quinone reductases, and may play a role as a pH response element-binding protein. CRYZL1 ( $\zeta$ -crystallin-like 1 protein) shares a high degree of homology with  $\zeta$ -crystallin. CRYZL1 is expressed at various levels in heart, brain, skeletal muscle, kidney, pancreas, liver and lung.

## CHROMOSOMAL LOCATION

Genetic locus: CRYZL1 (human) mapping to 21q22.11; Cryz1 (mouse) mapping to 16 C3.3.

## SOURCE

CRYZL1 (E-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CRYZL1 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83234 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

CRYZL1 (E-20) is recommended for detection of CRYZL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CRYZL1 (E-20) is also recommended for detection of CRYZL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CRYZL1 siRNA (h): sc-91421, CRYZL1 siRNA (m): sc-142601, CRYZL1 shRNA Plasmid (h): sc-91421-SH, CRYZL1 shRNA Plasmid (m): sc-142601-SH, CRYZL1 shRNA (h) Lentiviral Particles: sc-91421-V and CRYZL1 shRNA (m) Lentiviral Particles: sc-142601-V.

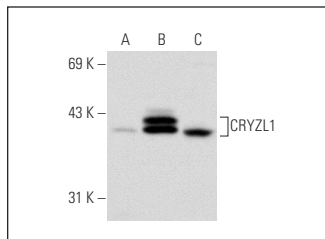
Molecular Weight of CRYZL1: 39 kDa.

Positive Controls: CRYZL1 (h): 293T Lysate: sc-171625 or HeLa whole cell lysate: sc-2200.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



CRYZL1 (E-20): sc-83234. Western blot analysis of CRYZL1 expression in non-transfected 293T: sc-117752 (A), human CRYZL1 transfected 293T: sc-171625 (B) and HeLa (C) whole cell lysates.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


 MONOS  
Satisfaction  
Guaranteed

Try **CRYZL1 (B-7): sc-514537**, our highly recommended monoclonal alternative to CRYZL1 (E-20).