

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-Hsp22 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11133 (clone 3C12.H11)

**Size:** 100ug Protein G-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.

### BACKGROUND

Hsp22 (HspB8) is a member of the small heat shock protein super-family. Like most other sHsps, Hsp22 is predominantly transcribed in skeletal muscle and heart as well as placenta. It is a monomeric protein which interacts with HspB1. It displays temperature-dependent chaperone activity. Hsp22 has two binding domains (N- and C-terminal) that are specific for different binding partners and has the ability to bind itself and other sHsps. Its chaperone-like activity is important to the function of Hsp22 in various processes including proliferation, apoptosis, and macroautophagy.

### SPECIFICATION SUMMARY

**Host Species:** Mouse

**Antigen:** His-tagged recombinant human Hsp22

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

### SPECIFICITY

This antibody recognizes human, mouse, and rat Hsp22. It detects endogenous and exogenous Hsp22 in monomeric, dimeric, and tetrameric (weak) forms in Western blots. Exogenous Hsp22 is detected in dimeric form. It does not cross-react with alpha crystallin.

### APPLICATIONS

*Immunoblotting:* use at 1-10ug/ml. A band of ~22kDa (monomeric) is detected. These are recommended concentrations. User should determine optimal concentrations for their application.

*Positive control:* Whole rat tissue extract.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which 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 freezing and thawing.

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