

## Anti-HSPB8/Hsp22 Antibody Picoband® (monoclonal, 7D8) Fluoro647 Conjugated

Catalog Number: M02492-2-Fluoro647

### About HSPB8

Heat shock protein beta-8 is a protein that in humans is encoded by the HSPB8 gene. The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease.

### Overview

Product Name	Anti-HSPB8/Hsp22 Antibody Picoband® (monoclonal, 7D8) Fluoro647 Conjugated
Reactive Species	Human, Rat
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Monoclonal 7D8
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	Q9UJY1

### Technical Details

Immunogen	E.coli-derived human HSPB8/Hsp22 recombinant protein (Position: M1-T196). Human HSPB8/Hsp22 shares 94.4% and 95.4% amino acid (aa) sequence identity with mouse and rat HSPB8/Hsp22, respectively.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm

	Emission Wavelength: 665 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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