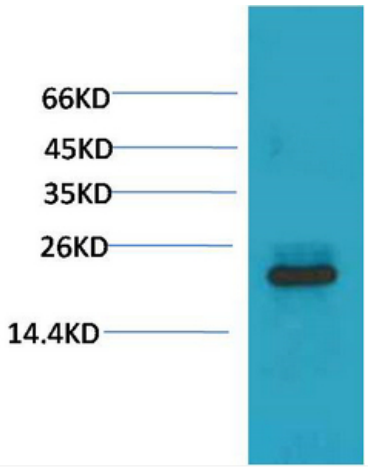
# HSPB8/HSP22 Monoclonal Antibody(2C3)

| | |
|---|---|
| **Catalog No** | YP-Ab-03496 |
| **Isotype** | IgG |
| **Reactivity** | Human;Rat;Mouse |
| **Applications** | WB |
| **Gene Name** | HSPB8 |
| **Protein Name** | Heat shock protein beta-8 (HspB8) (Alpha-crystallin C chain) (E2-induced gene 1 protein) (Protein kinase H11) (Small stress protein-like protein HSP22) |
| **Immunogen** | Recombinant Protein of HSPB8/HSP22 |
| **Specificity** | HSPB8/HSP22 protein detects endogenous levels of HSPB8/HSP22 |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse |
| **Purification** | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. |
| **Dilution** | WB 1:1000-2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | HSPB8; CRYAC; E2IG1; HSP22; PP1629; Heat shock protein beta-8; HspB8; Alpha-crystallin C chain; E2-induced gene 1 protein; Protein kinase H11; Small stress protein-like protein HSP22 |
| **Observed Band** | 22kD |
| **Cell Pathway** | Cytoplasm . Nucleus . Translocates to nuclear foci during heat shock. |
| **Tissue Specificity** | Predominantly expressed in skeletal muscle and heart. |
| **Function** | caution:Was reported (PubMed:10833516) to have a protein kinase activity and to act as a Mn(2+)-dependent serine-threonine-specific protein kinase.,disease:Defects in HSPB8 are the cause of Charcot-Marie-Tooth disease type 2L (CMT2L) [MIM:608673]. CMT2L is an axonal form of Charcot-Marie-Tooth disease. Axonal CMT neuropathies are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy.,disease:Defects in HSPB8 are the cause of distal hereditary motor neuronopathy type 2A (HMN2A) [MIM:158590]; also known as distal hereditary motor neuropathy type IIA or spinal Charcot-Marie-Tooth disease IIA. Distal hereditary motor neuronopathies constitute a heterogeneous group of neuromuscular disorders caused by selective impairment of motor neurons in the ante |

| | |
|---|---|
| **Background** | 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 in 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. [provided by RefSeq, Jul 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western blot analysis of 293T with HSPB8/HSP22 Mouse mAb diluted at 1:2,000.