

Product datasheet for TA326394

Nucleostemin (GNL3) Mouse Monoclonal Antibody [Clone ID: 3C12-H11]

Product data:

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|---------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 3C12-H11 |
| Applications: | IHC, WB |
| Recommend Dilution: | WB: 1:2000 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1, kappa |
| Clonality: | Monoclonal |
| Immunogen: | His-tagged human recombinant hsp22 |
| Formulation: | PBS pH7.4, 50% glycerol, 0.09% sodium azide |
| Concentration: | 1 mg/ml |
| Purification: | Protein G Purified |
| Gene Name: | G protein nucleolar 3 |
| Database Link: | NP_996562 Entrez Gene 30877 MouseEntrez Gene 290556 RatEntrez Gene 26354 Human |
| Background: | <p>Hsp22 (HSPB8) is a 196-amino acid protein that is a member of the small heat shock protein super-family and the human protein is most closely related to Hsp27. Similar to most other sHSPs, Hsp22 is predominately transcribed in skeletal muscle and heart, as well as the placenta . Hsp22 is a monomeric protein which interacts with HSPB1. It displays temperature-dependent chaperone activity. In a two hybrid screen, HspB8 interacted preferentially with a triple aspartate form of Hsp27 which mimics Hsp27 phosphorylated at Ser15, Ser78, and Ser82, as compared to wild-type Hsp27 . HSPB8 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 . The chaperone-like activity is of great importance to the function of Hsp22 in various processes including proliferation, apoptosis and macroautophagy . Mutations in the HSPB8 gene are associated with the inherited peripheral neuropathies, autosomal dominant distal hereditary motor neuropathy type IIA (dSMA) and axonal Charcot-Marie-Tooth disease type 2L (CMT2L) .</p> |
| Synonyms: | C77032; E2IG3; NNP47; NS |



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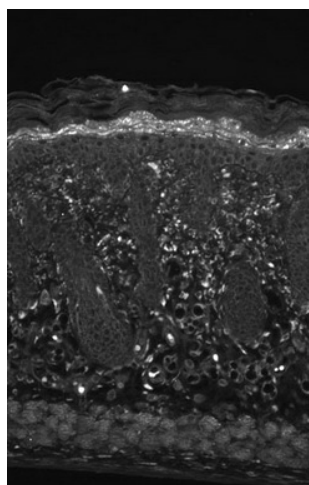
Note: Detects endogenous and exogenous hsp22 in monomeric, dimeric and tetrameric forms in WB. Does not cross react with alpha crystallin.

Protein Families: ES Cell Differentiation/IPS, Stem cell - Pluripotency

Product images:



Western blot analysis of Hsp22 in rat tissue mix using a 1:1000 dilution of the antibody



IHC analysis of Hsp22, tested on mouse backskin sections. Courtesy of Dr. Turksen, Ottawa Hospital Research Institute.