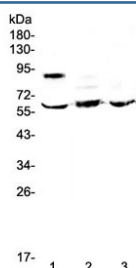


HSF2 Antibody / Heat shock factor 2 (RQ4139)

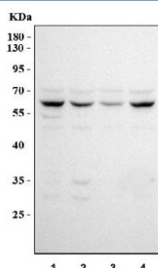
| Catalog No. | Formulation | Size |
|-------------|---|--------|
| RQ4139 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

Bulk quote request

| | |
|---------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Antigen affinity purified |
| Host | Rabbit |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit IgG |
| Purity | Antigen affinity purified |
| Buffer | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| UniProt | Q03933 |
| Localization | Cytoplasmic, nuclear |
| Applications | Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml |
| Limitations | This HSF2 antibody is available for research use only. |



Western blot testing of human 1) placenta, 2) HepG2 and 3) MCF7 lysate with HSF2 antibody at 0.5ug/ml. Predicted molecular weight ~60 kDa.



Western blot testing of human 1) HeLa, 2) 293T, 3) Jurkat and 4) Raji cell lysate with HSF2 antibody at 0.5ug/ml. Predicted molecular weight ~60 kDa.

Description

HSF2 (Heat shock transcription factor 2), also called Heat shock factor 2, as well as the related gene HSF1, encodes a protein that binds specifically to the heat-shock element and has homology to HSFs of other species. The International Radiation Hybrid Mapping Consortium maps the HSF2 gene to chromosome 6. Mouse Hsf2 was expressed in all 3 embryonic layers at embryonic day 7.5 and that the head fold was strongly stained at embryonic day 8.5. In adults, Hsf2 expression is detected in spermatocytes and spermatogonia, but not in elongated spermatids, spermatozoa, or Sertoli cells. Hsp70i bookmarking is mediated by a transcription factor called HSF2, which binds this promoter in mitotic cells, recruits protein phosphatase-2A, and interacts with the CAPG subunit of the condensin enzyme to promote efficient dephosphorylation and inactivation of condensin complexes in the vicinity, thereby preventing compaction at this site. And Hsf2-null mice were born at the expected mendelian ratio but had brain abnormalities and meiotic and gametogenic defects in both genders.

Application Notes

Optimal dilution of the HSF2 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein corresponding to amino acids K13-D245 was used as the immunogen for the HSF2 antibody.

Storage

After reconstitution, the HSF2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.