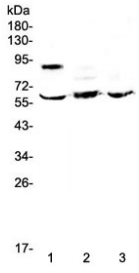
HSF2 Antibody / Heat shock factor 2 (RQ4139)

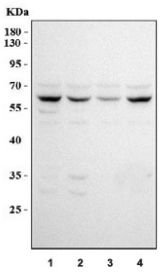
Catalog No.	Formulation	Size
RQ4139	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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