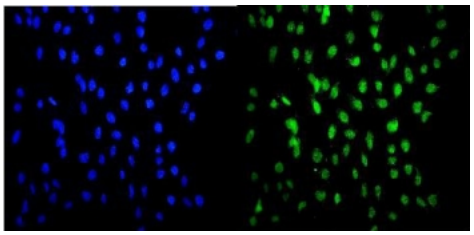
HSF2 Antibody / Heat shock factor 2 (R30687)

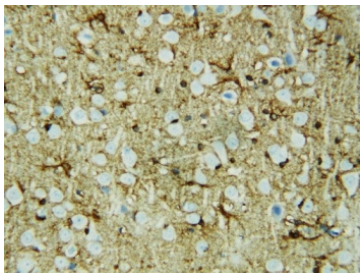
Catalog No.	Formulation	Size
R30687	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

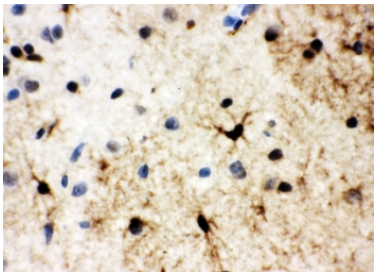
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q03933
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This HSF2 antibody is available for research use only.



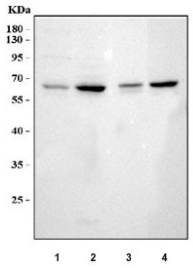
Immunofluorescent staining of FFPE human U-2 OS cells with HSF2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



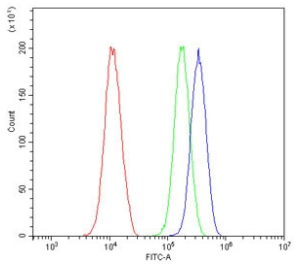
IHC testing of FFPE rat brain tissue with HSF2 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE rat brain tissue with HSF2 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of 1) human HeLa, 2) human 293T, 3) rat thymus and 4) mouse thymus tissue lysate with HSF2 antibody. Predicted molecular weight ~60 kDa.



Flow cytometry testing of human 293T cells with HSF2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSF2 antibody.

Description

Heat shock transcription factor 2 is a protein that binds specifically to the heat-shock element and has homology to HSFs of other species. Mouse HSF2 was expressed in all three embryonic layers at embryonic day 7.5 and the head fold was strongly stained at embryonic day 8.5. In adults, expression is detected in spermatocytes and spermatogonia, but not in elongated spermatids, spermatozoa, or Sertoli cells. It mediates Hsp70i bookmarking, binding to 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

The stated application concentrations are suggested starting amounts. Titration of the HSF2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human HSF2 (KQERDGPVEFQHPYFKQGQDD) was used as the immunogen for this 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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