

Anti-HSF2 Antibody
Catalog # ABO10922

Specification

Anti-HSF2 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q03933
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Heat shock factor protein 2(HSF2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-HSF2 Antibody - Additional Information

Gene ID 3298

Other Names

Heat shock factor protein 2, HSF 2, Heat shock transcription factor 2, HSTF 2, HSF2, HSTF2

Calculated MW

60348 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cytoplasm . Nucleus . Cytoplasmic during normal growth and moves to the nucleus upon activation.

Protein Name

Heat shock factor protein 2(HSF 2)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human HSF2(82-102aa KQERDGPVEFQHPYFKQGQDD), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the HSF family.

Anti-HSF2 Antibody - Protein Information

Name HSF2

Synonyms HSTF2

Function

DNA-binding protein that specifically binds heat shock promoter elements (HSE) and activates transcription. In higher eukaryotes, HSF is unable to bind to the HSE unless the cells are heat shocked.

Cellular Location

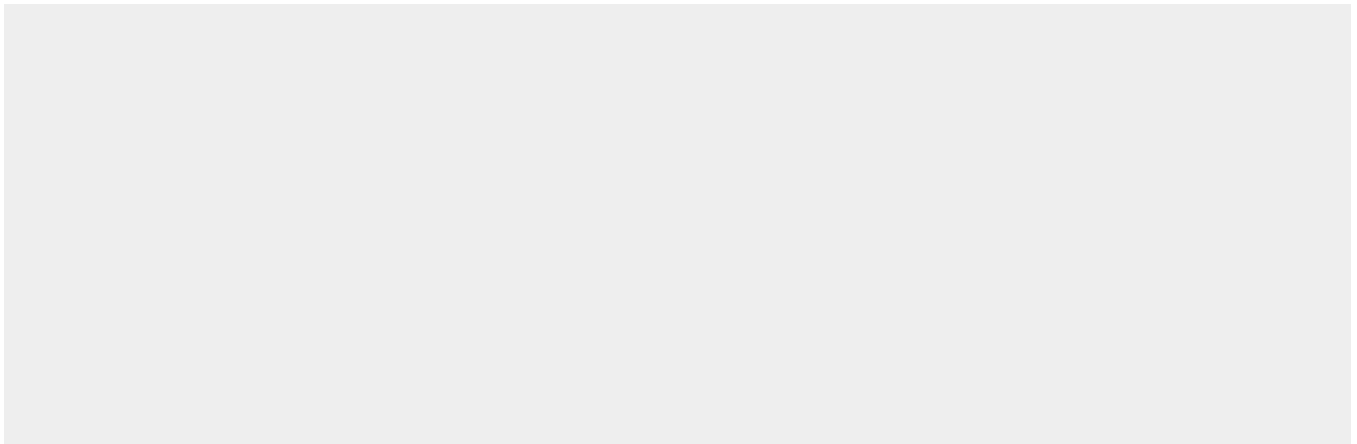
Cytoplasm. Nucleus. Note=Cytoplasmic during normal growth and moves to the nucleus upon activation

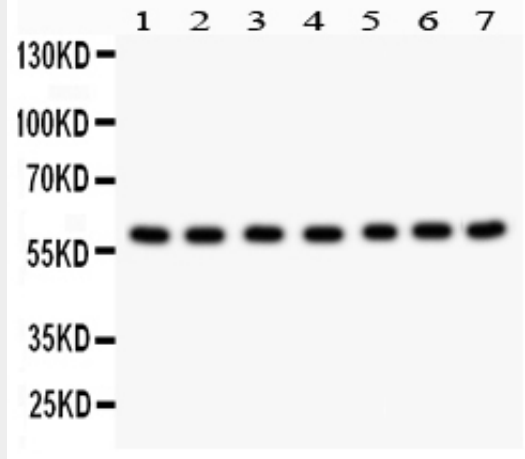
Anti-HSF2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

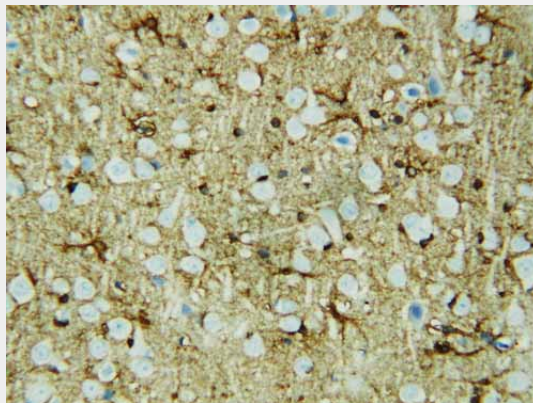
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-HSF2 Antibody - Images

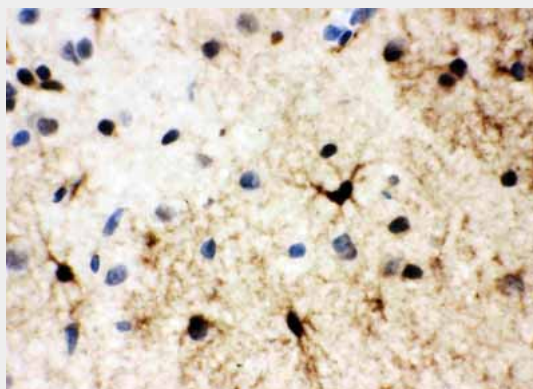




Anti-HSF2 antibody, ABO10922, Western blotting
 All lanes: Anti HSF2 (ABO10922) at 0.5ug/ml
 Lane 1: Rat Kidney Tissue Lysate at 50ug
 Lane 2: Rat Spleen Tissue Lysate at 50ug
 Lane 3: 293T Whole Cell Lysate at 40ug
 Lane 4: MCF-7 Whole Cell Lysate at 40ug
 Lane 5: JURKAT Whole Cell Lysate at 40ug
 Lane 6: A549 Whole Cell Lysate at 40ug
 Lane 7: CEM Whole Cell Lysate at 40ug
 Predicted bind size: 60KD
 Observed bind size: 60KD



Anti-HSF2 antibody, ABO10922, IHC(P)
 IHC(P): Rat Brain Tissue



Anti-HSF2 antibody, ABO10922, IHC(P)
 IHC(P): Rat Brain Tissue

Anti-HSF2 Antibody - Background

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.