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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 r˚Constitution, 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 Cytomety
- Cell Culture

Anti-HSF2 Antibody - Images

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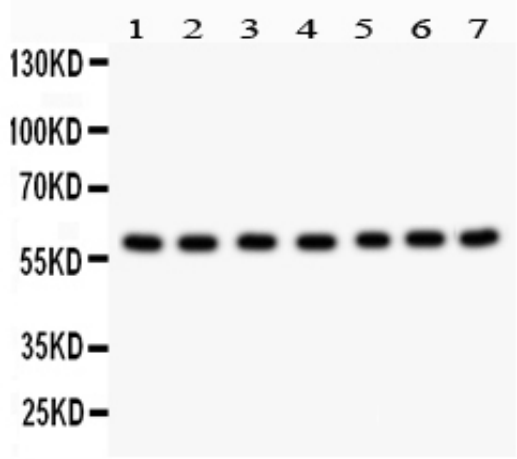
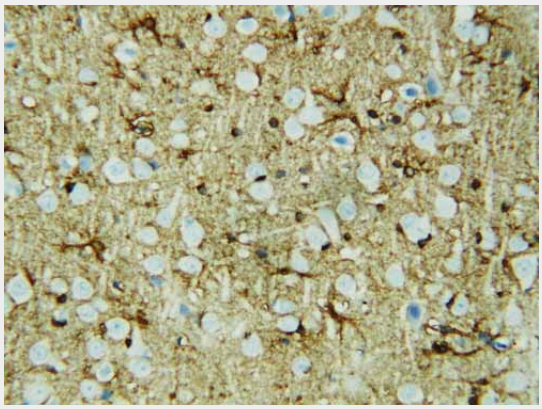
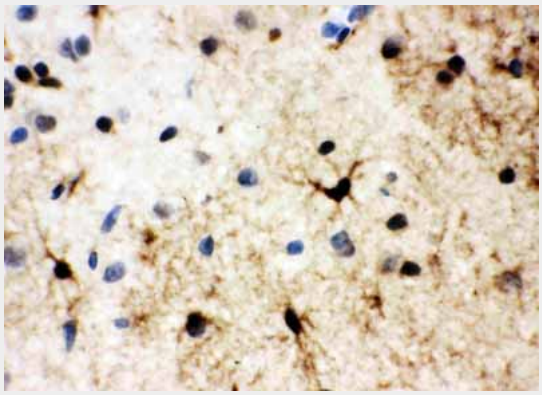


Anti-HSF2 antibody, ABO10922, Western blottingAll lanes: Anti HSF2 (ABO10922) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Rat Spleen Tissue Lysate at 50ugLane 3: 293T Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugLane 5: JURKAT Whole Cell Lysate at 40ugLane 6: A549Whole Cell Lysate at 40ugLane 7: CEM Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved 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.