

Anti-HSF2 Picoband Antibody

Catalog # ABO10310

Product Information

Application	WB, E
Primary Accession	Q03933
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for HSF2 detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

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

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
Application Details	Western blot, 0.1-0.5 µg/ml Direct ELISA, 0.1-0.5 µg/ml
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human HSF2 recombinant protein (Position: K13-D245).
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.

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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.