

Product datasheet for **TA397454S**

HSF1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	WB: 1 ug/ml ELISA: 5 µg/ml
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Affinity purified Anti-HSF1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the n-terminal portion of human HSF1 protein.
Specificity:	Anti-HSF1 is directed against human HSF1 at a n-terminus position. This product is an affinity purified antibody produced by immunoaffinity chromatography using peptide coupled to agarose beads. A BLAST analysis was used to suggest reactivity with this protein in mouse and bovine species based on 100% homology for the immunogen sequence.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.96 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	heat shock transcription factor 1
Database Link:	Entrez Gene 3297 Human Q00613



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Background:

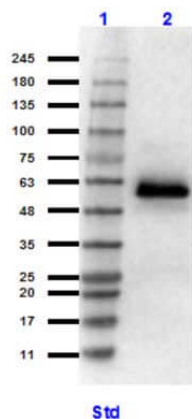
Anti-HSF1 Antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Heat shock factor 1 (HSF1) is a highly conserved transcription factor that coordinates stress-induced transcription and directs versatile physiological processes in eukaryotes. Upon stress, HSF1 is the key transcriptional activator of chaperones, co-chaperones and ubiquitin, and also coordinates the expression of many transcriptional and translational regulators, signaling molecules and mitotic determinants. HSF1 is involved in balancing core cellular processes during stress and enables their rapid re-establishment once conditions suitable for proliferation have been restored. Importantly, HSF1 controls a distinct set of target genes in cell stress, development and cancer progression. The central role of HSF1 in diverse cellular functions is reflected in pathologies, such as neurodegenerative diseases and cancer, where an imbalance in HSF1 activity facilitates disease onset. The ability of cancer cells to harness HSF1 for metastatic progression highlights the plasticity of HSF1 in rewiring transcription and coordinating cellular processes. Anti-HSF1 antibody is thus ideal for investigators involved in cancer research and neurodegenerative diseases.

Synonyms:

rabbit anti-HSF1 antibody, HSF-1, HSF 1, heat shock factor protein 1, HSTF1, HSTF 1, HSTF-1, heat shock transcription factor 1

Note:

Anti-Heat Shock Factor 1 Antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band of 57 kDa in size corresponding to HSF1 by western blotting in the appropriate cell lysate or extract. Tested using positive control A431 Whole Cell Lysate p/n W09-000-361.

Product images:

Western Blot of Rabbit anti-HSF1 antibody. Lane 1: Ladder Opal PreStained (p/n MB-210-0500). Lane 2: A431 Whole Cell lysate (p/n W09-000-361). Load: 35 µg per lane. Primary antibody: HSF1 antibody at 1.0 µg/ml for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-133) at 1:70,000 for 30 min at RT. Block: Universal Buffer BlockOut (p/n MB-073) for 30 min at room temperature. Predicted/Observed size: ~57kDa for HSF1 in A431 whole cell lysate.