

Product datasheet for **AM00238PU-N**

HSF1 Rat Monoclonal Antibody [Clone ID: 4B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B4
Applications:	IF, IP, WB
Recommended Dilution:	Western blot: 1µg/ml was sufficient for ECL immunoblot in 20µg of HeLa lysate. Immunofluorescence. Immunoprecipitation.
Reactivity:	Human, Mouse, Rat
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant mouse HSF1 protein; epitope mapping to amino acids 378-395
Specificity:	Highly specific for HSF1. Detects an ~85kDa protein in unstressed cell lysates, and an ~95kDa protein in heat shocked cell lysates, corresponding to the molecular mass of inactive and active forms of HSF1 on SDS-PAGE immunoblots.
Formulation:	PBS pH 7.4, 50% Glycerol, 0.09% Sodium azide State: Purified State: Liquid
Concentration:	lot specific
Purification:	Immunoglobulin fraction purified on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	heat shock transcription factor 1
Database Link:	Entrez Gene 3297 Human Q00613



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Background:

HSF1 responds to cellular stress signals such as heat, heavy metals, and oxidative reagents; binds to heat shock response elements (HSEs) in the upstream region of heat shock gene and activates their transcription. Some laboratories have reported that the constitutive, non-DNA binding, monomeric form of inactive HSF1 is located in the cytoplasm. Upon activation, HSF1 is trimerized and is localized in nucleus where it binds DNA.

Synonyms:

HSTF1, HSF-1