

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse HSF2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HSF2 Ser411-Ser536 Accession # Q03933
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HSF2 (Heat shock transcription factor 2; also HSTF2) is a 60 kDa member of the HSF family of proteins. It is widely expressed and serves as a transcriptional activator of HSPs. In quiescent cells, HSF2 is a cytoplasmic homodimer; upon exposure to stress or differentiation, it homo- or hetero-trimerizes with HSF-1, and translocates to the nucleus where it impacts gene transcription. Human HSF2 is 536 amino acids (aa) in length and contains a DNA binding region (aa 7-107), two NLSs (aa 108-122 and 195-210) and an HR (hydrophobic repeat) domain that mediates trimerization (aa 119-192). There are three potential splice variants. One shows a Leu substitution for aa 260-536, a second shows an IlePhe substitution for aa 229-536, and a third shows a deletion of aa 393-410. Over aa 411-536, human HSF2 is 92% aa identical to mouse HSF2.

PRODUCT SPECIFIC NOTICES

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