

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse HSF4 in direct ELISAs and Western blots. In Western blots, approximately 25% cross-reactivity with recombinant human (rh) HSF4 is observed and less than 5% cross-reactivity with recombinant mouse HSF1 and rhHSF2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse HSF4 Gly343-Pro492 Accession # Q9R0L1
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse HSF4

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

HSF4 (heat shock factor 4) is a 55 kDa member of the HSF family of transcription factors. It is highly expressed in lens where it maintains lens integrity and blocks FGF synthesis. Mouse HSF4B is 492 amino acids in length. It contains one DNA binding region (aa 17-122) and a Leu-zipper trimerization domain (hydrophobic repeat A/B) (aa 129-203). Two additional potential isoforms exist. The first isoform, termed HSF4A, is transcriptionally inactive and shows a 45 aa substitution for aa 245-319. The second isoform shows an 18 aa substitution for the first 78 amino acids of the N-terminus. Over aa 343-492, mouse HSF4 shares 93% and 72% aa sequence identity with rat and human HSF4, respectively.