

DESCRIPTION

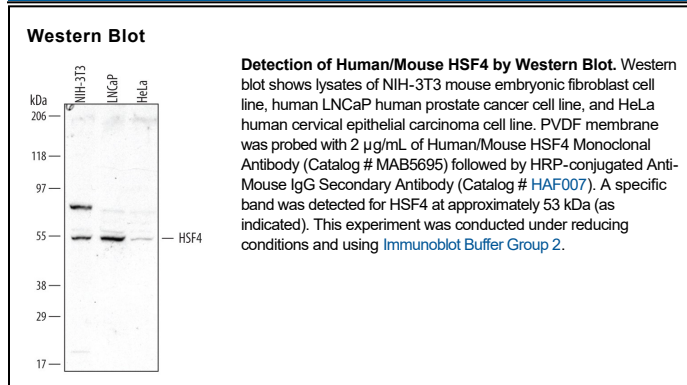
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse HSF4 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 504524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HSF4 Ser309-Pro463 Accession # BAA13433
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	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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 53 kDa member of the HSF family of transcription factors. It is highly expressed in the lens where it maintains lens integrity and blocks FGF synthesis. Human HSF4 has two isoforms HSF4B and HSF4A. Human HSF4B is 493 amino acids in length. It contains one DNA binding region (aa 18-122) and two hydrophobic repeat domains A/B and C (aa 130-204 and 369-390). HSF4B activates transcription, whereas, HSF4A represses transcription. HSF4A shows a 45 aa substitution for aa 246-320. Over aa 309-463, human HSF4B shares 73% aa sequence identity with mouse HSF4B.