Human/Mouse HSF4 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 504524

Catalog Number: FAB5695V

100 µg

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	*E. coli*-derived recombinant human HSF4 Ser309-Pro463 Accession # BAA13433
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

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.

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