Rat anti Heat Shock Factor 2 Monoclonal Antibody

Alternative Name(s): Heat Shock Factor 2 (HSF2); Heat shock transcription factor (HSTF2)

Order Information

- **Description:** Heat Shock Factor 2
- **Catalogue:** 500-7664
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rat
- **Clone:** ABM402
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A recombinant human HSF2 (1-536aa) protein

BACKGROUND

Heat-shock factors(HSF1-4) play important roles in responding to the cellular stress signals, such as heat, heavy metals, and oxidative reagents and a wide variety of other stressors. HSF1 is activated by stress, whereas HSF2 lacks intrinsic stress responsiveness although the HSF2 expression changes which is coinciding with the functions of HSF2 in development. HSF1 and HSF2 form heterotrimers when bound to satellite III DNA in nuclear stress bodies, subnuclear structures in which HSF1 induces transcription. Upon stress, HSF2 DNA binding is HSF1 dependent. The heterotrimerization of HSF1 and HSF2 integrates transcriptional activation in response to distinct stress and developmental stimuli.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antbody recognizes Heat Shock Factor 2 protein. It reacts to human, mice and rat. The other species not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 80.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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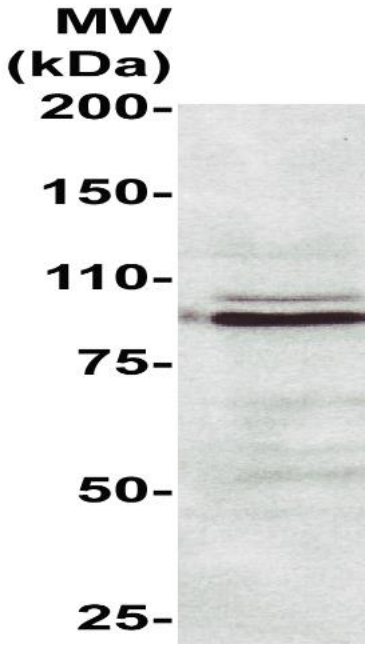
DATA ATTACHMENTS



Western Blot: The cell lysate was derived from MCF7 was resolved onto 7.5% SDS-PAGE, transferred onto NC membrane, and immunoprobed by Rat anti HSF1 (Cat# 500-7654) at 1:500 dilution. A major immunoreactive band is observed around ~80kDa.

REFERENCES