Anti-HSF2 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11105 (clone 3E2)
Size: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Heat shock factor 1 (HSF1) is a heat shock transcription factor that activates the transcription of genes encoding products required for protein folding, processing, targeting, degradation, and function. Up-regulation of expression of heat shock proteins in response to stress occurs at the level of transcription through a heat shock element and a HSF transcription factor. Amino acid sequences for most HSFs are highly conserved. A DNA binding domain is at the N-terminus, hydrophobic repeats (essential to the formation of active trimers) are adjacent to this binding domain, and another short hydrophobic repeat (necessary for suppression of trimerization) occurs toward the C-terminus. HSF2 exists as two isoforms, the alpha form being more transcriptionally active than the smaller beta form. Various experiments have suggested that HSF2 may play roles in differentiation and development.

SPECIFICATION SUMMARY

Antigen: Recombinant full-length mouse HSF2
Host Species: Rat
Antibody Class: IgG1
Preservatives: 0.09% sodium azide
Other additives: 50% glycerol

SPECIFICITY

This antibody recognizes HSF2 in heat-shocked cell lysates of human, mouse, rat, rabbit, bovine, canine, porcine, guinea pig, hamster, sheep, and monkey.

APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~69 kDa is detected.
Immunohistochemistry / Immuno-fluorescence: use at 1-5 ug/ml.
Immunoprecipitation: use 1-2ug per 100-500ug total protein.
These are recommended concentrations. User should determine optimal concentrations for their application.
Positive control: Heat-shocked HeLa cell lysate, K562 cell nuclear extract, human pancreatic tumor cells.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

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