10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# HSF4 Antibody (monoclonal) (M01)

**Mouse monoclonal antibody raised against a partial recombinant HSF4.**
**Catalog # AT2440a**

## Specification

### HSF4 Antibody (monoclonal) (M01) - Product Information

| | |
|---|---|
| Application | **WB, E** |
| Primary Accession | Q9ULV5 |
| Other Accession | NM_001538 |
| Reactivity | **Human** |
| Host | **mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG2a Kappa** |
| Calculated MW | **53011** |

### HSF4 Antibody (monoclonal) (M01) - Additional Information

**Gene ID** 3299

**Other Names**
Heat shock factor protein 4, HSF 4, hHSF4, Heat shock transcription factor 4, HSTF 4, HSF4

**Target/Specificity**
HSF4 (NP_001529, 121 a.a. ~ 220 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**
WB~~1:500~1000

**Format**
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**
HSF4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

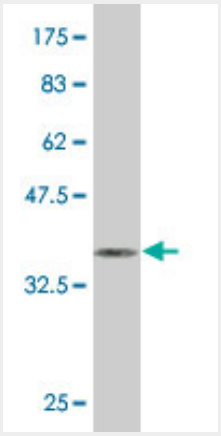
### HSF4 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

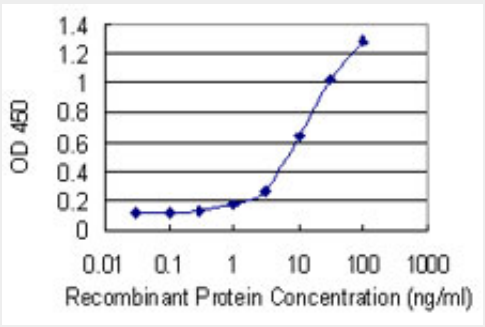
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**HSF4 Antibody (monoclonal) (M01) - Images**




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .




Detection limit for recombinant GST tagged HSF4 is 0.3 ng/ml as a capture antibody.

**HSF4 Antibody (monoclonal) (M01) - Background**

Heat-shock transcription factors (HSFs) activate heat-shock response genes under conditions of heat or other stresses. HSF4 lacks the carboxyl-terminal hydrophobic repeat which is shared among all vertebrate HSFs and has been suggested to be involved in the negative regulation of DNA binding activity. Two alternatively spliced transcripts encoding distinct isoforms and possessing different transcriptional activity have been described.

**HSF4 Antibody (monoclonal) (M01) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.[Construction of eukaryotic plasmid expression Hsf4b and phosphorylation of Hsf4b by MAP kinase P38] Ma ZY, et al. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi, 2010 Apr. PMID 20564821.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.A novel HSF4 gene mutation (p.R405X) causing autosomal recessive congenital cataracts in a large consanguineous family from Pakistan. Sajjad N, et al. BMC Med Genet, 2008 Nov 11. PMID 19014451.Mutation screening of HSF4 in 150 age-related cataract patients. Shi Y, et al. Mol Vis, 2008. PMID 18941546.