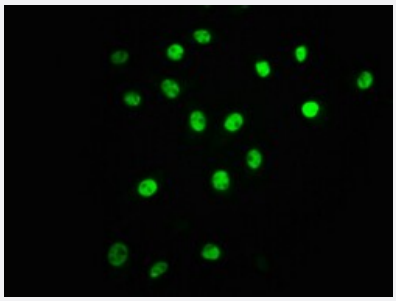
RecomAb™ Sm Size

ATF2 (phospho T71) recombinant monoclonal antibody, clone 4F2

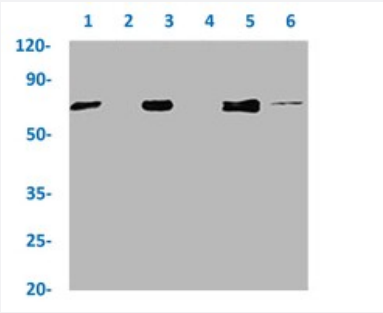
Catalog # RAB08063 Size 50 uL

Applications



Immunofluorescence

Immunofluorescent staining of A549 cells with ATF2 (phospho T71) recombinant monoclonal antibody (diluated at 1:63). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Western Blot

Western blot analysis of
Lane 1: 293 whole cell lysate (treated with Calyculin A 50 nM/60 mins),
Lane 2: 293 whole cell lysate (not treated),
Lane 3: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins),
Lane 4: A549 whole cell lysate (not treated),
Lane 5: HepG2 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and
Lane 6: HepG2 whole cell lysate (not treated) with ATF2 (phospho T71) recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ATF2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T71 of human ATF2.
Theoretical MW (kDa)	Calculated MW: 70 kD

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Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of A549 cells with ATF2 (phospho T71) recombinant monoclonal antibody (diluated at 1:63). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: 293 whole cell lysate (treated with Calyculin A 50 nM/60 mins),
  Lane 2: 293 whole cell lysate (not treated),
  Lane 3: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins),
  Lane 4: A549 whole cell lysate (not treated),
  Lane 5: HepG2 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and
  Lane 6: HepG2 whole cell lysate (not treated) with ATF2 (phospho T71) recombinant monoclonal antibody.

Gene Info — ATF2

Entrez GeneID	1386
Protein Accession#	P15336

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Gene Name	ATF2
Gene Alias	CRE-BP1, CREB2, HB16, MGC111558, TREB7
Gene Description	activating transcription factor 2
Omim ID	123811
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA bin ding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrom e. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent tran scription. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histone s H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate tran scription by direct effects on chromatin components. Additional transcript variants have been iden tified but their biological validity has not been determined. [provided by RefSeq
Other Designations	OTTHUMP00000163262|activating transcription factor 2 splice variant ATF2-var2|cAMP respons ive element binding protein 2, formerly

Pathway

- MAPK signaling pathway

Disease

- Bipolar Disorder
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Schizophrenia
- Tobacco Use Disorder

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