



Recombinant Protein Technical Manual  
Recombinant Human ATF2 Protein (His & GST Tag)  
RPES0817

### Product Data:

**Product SKU:** RPES0817

**Size:** 50µg

**Species:** Human

**Expression host:** Baculovirus-Insect Cells

**Uniprot:** P15336

### Protein Information:

**Molecular Mass:** 82.4 kDa

**AP Molecular Mass:** 85 kDa

**Tag:** N-His & GST

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** CRE-BP1;CREB-2;CREB2;HB16;TREB7

## Immunogen Information:

**Sequence:** Met 1-Ser 505

## Background:

Activating transcription factor 2, also known as ATF2, is a member of the leucine zipper family of DNA-binding proteins that binds to the cAMP response element. Its activity is enhanced after phosphorylation by stress-activated protein kinases such as c-Jun N-terminal kinase and p38. ATF2 has been found to be a target of the JNK signal transduction pathway and mediate adenovirus E1A-inducible transcriptional activation. ATF2 is also been reported playing roles in TGF- $\beta$  signaling pathway. It has been shown that the transcription factor ATF2 is bound by a hetero-oligomer of Smad3 and Smad4 upon TGF- $\beta$  stimulation. Studies indicate that ATF-2 plays a central role in TGF- $\beta$  signaling by acting as a common nuclear target of both Smad and TAK1 pathways.