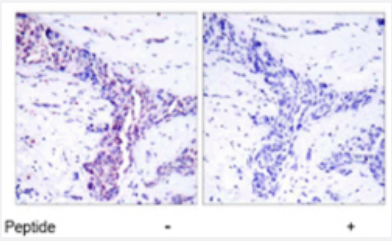
ATF2 polyclonal antibody

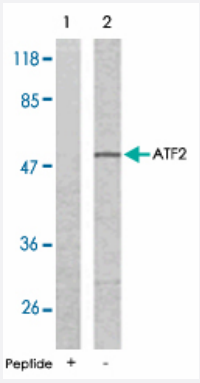
Catalog # PAB5255 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATF2 polyclonal antibody (Cat # PAB5255) .



Western Blot (Cell lysate)

Western blot analysis of extract from LoVo cells using ATF2 polyclonal antibody (Cat # PAB5255) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATF2.
Immunogen	A synthetic peptide corresponding to residues surrounding T73/T55 of human ATF2.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

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Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATF2 polyclonal antibody (Cat # PAB5255) .

- Western Blot (Cell lysate)

  Western blot analysis of extract from LoVo cells using ATF2 polyclonal antibody (Cat # PAB5255) .

Gene Info — ATF2

Entrez GeneID	1386
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

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Publication Reference

- Screening of organoids derived from patients with breast cancer implicates the repressor NCOR2 in cytotoxic stress response and antitumor immunity.

  Kelvin K Tsai, Shenq-Shyang Huang, Jason J Northey, Wen-Ying Liao, Chung-Chi Hsu, Li-Hsin Cheng, Michael E Werner, Chih-Pin Chuu, Chandrima Chatterjee, Jonathon N Lakins, Valerie M Weaver

  Nat Cancer 2022 6; 3(6):734-752.

- Large-scale characterization of HeLa cell nuclear phosphoproteins.

  Beausoleil SA, Jedrychowski M, Schwartz D, Elias JE, Villen J, Li J, Cohn MA, Cantley LC, Gygi SP.

  PNAS 2004 Aug; 101(33):12130.

- ATF-2 contains a phosphorylation-dependent transcriptional activation domain.

  Livingstone C, Patel G, Jones N.

  The EMBO Journal 1995 Apr; 14(8):1785.

  Application: WB-Re, Insect, Recombinant protein

- Activating transcription factor-2 DNA-binding activity is stimulated by phosphorylation catalyzed by p42 and p54 microtubule-associated protein kinases.

  Abdel-Hafiz HA, Heasley LE, Kyriakis JM, Avruch J, Kroll DJ, Johnson GL, Hoeffler JP.

  Molecular Endocrinology 1992 Dec; 6(12):2079.

  Application: Func, N/A, Recombinant protein

Pathway

- MAPK signaling pathway

Disease

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

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- Schizophrenia
- Tobacco Use Disorder

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