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Datasheet for ABIN669561

anti-ATF3 antibody (AA 51-150)

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Overview

Quantity:	100 µL
Target:	ATF3
Binding Specificity:	AA 51-150
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATF3 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ATF3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	ATF3
Alternative Name:	ATF3 (ATF3 Products)
Background:	Synonyms: Cyclic AMP-dependent transcription factor ATF-3, cAMP-dependent transcription

Target Details

factor ATF-3, Activating transcription factor 3, ATF3

Background: This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter. Isoform 2 activates transcription presumably by sequestering inhibitory cofactors away from the promoters.

Gene ID: 467

UniProt: [P18847](#)

Pathways: [Myometrial Relaxation and Contraction](#), [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

Application Details

Application Notes: WB 1:300-5000
FCM 1:20-100
IHC-P 1:200-400
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Smith, Seto, Vivekanandan-Giri, Yuan, Playford, Manna, Hasni, Kuai, Mehta, Schwendeman, Pennathur, Kaplan et al.: "Lupus high-density lipoprotein induces proinflammatory responses in

macrophages by binding lectin-like oxidised low-density lipoprotein receptor 1 and failing to promote activating transcription ..." in: **Annals of the rheumatic diseases**, (2016) ([PubMed](#)).

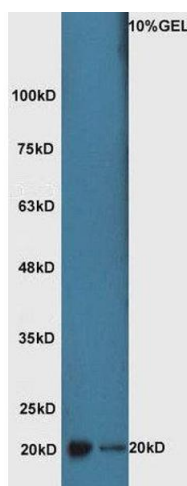
Aguirre, López-Alonso, González-López, Amado-Rodríguez, Batalla-Solís, Astudillo, Blázquez-Prieto, Fernández, Galván, dos Santos, Albaiceta: "Defective autophagy impairs ATF3 activity and worsens lung injury during endotoxemia." in: **Journal of molecular medicine (Berlin, Germany)**, Vol. 92, Issue 6, pp. 665-76, (2014) ([PubMed](#)).

Yuan, Han, Cong, Ge, Ma, Dai, Li, Bi: "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." in: **International journal of nanomedicine**, Vol. 9, pp. 4829-46, (2014) ([PubMed](#)).

Hu, Li, Li: "MARVELD1 Inhibits Nonsense-Mediated RNA Decay by Repressing Serine Phosphorylation of UPF1." in: **PLoS ONE**, Vol. 8, Issue 6, pp. e68291, (2013) ([PubMed](#)).

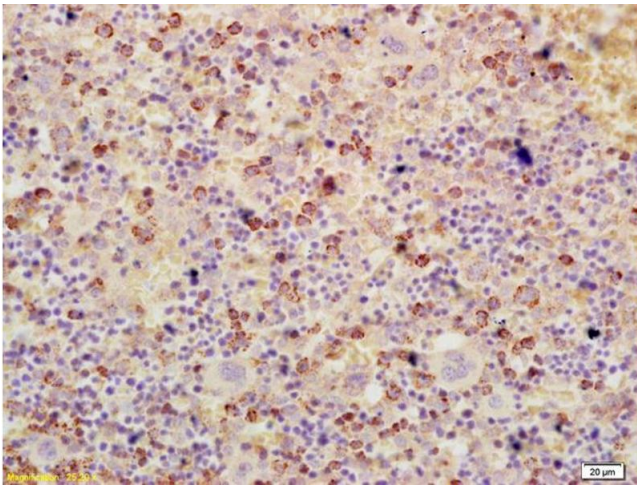
Feng, Sun, Wu, Lu, Qu, Sun, Tian, Zhang, Li, Liu: "Upregulation of ATF-3 is correlated with prognosis and proliferation of laryngeal cancer by regulating Cyclin D1 expression." in: **International journal of clinical and experimental pathology**, Vol. 6, Issue 10, pp. 2064-70, (2013) ([PubMed](#)).

Images



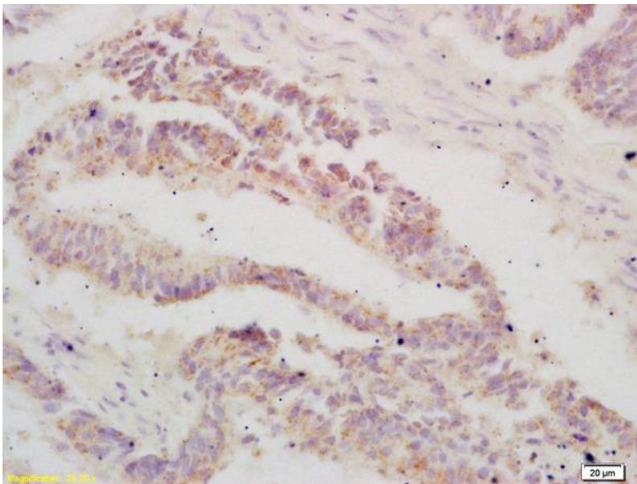
Western Blotting

Image 1. Lane 1: mouse lung lysate Lane 2: mouse brain lysate probed with Rabbit Anti-ATF3 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human colon cancer labeled with Anti-ATF3 Polyclonal Antibody, Unconjugated (ABIN669561) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human colon carcinoma labeled with Anti-ATF3 Polyclonal Antibody, Unconjugated (ABIN669561) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN669561.