




## Rabbit Anti-ATF3 antibody

SL0519R

|   |  |
|---|--|
| <b>Product Name:</b>  | ATF3   |
| <b>Chinese Name:</b>  | 活化转录因子3抗体  |
| <b>Alias:</b>   | Activating transcription factor 3; ATF3deltaZip2; ATF3deltaZip2c; ATF3deltaZip3; cAMP dependent transcription factor ATF3; Cyclic AMP dependent transcription factor ATF3; Cyclic AMP-dependent transcription factor ATF-3; TF3_HUMAN; cAMP-dependent transcription factor ATF-3; cyclic AMP-dependent transcription factor ATF-3 isoform 1.   |
| <b>文献引用</b><br> | <p><b>Specific References(5)</b> SL0519R has been referenced in 5 publications.</p> <p><b>[IF=3.73]</b>Hu, Jianran, Yu Li, and Ping Li. "MARVELD1 Inhibits Nonsense-Mediated RNA Decay by Repressing Serine Phosphorylation of UPF1." PLOS ONE 8.6 (2013): e68291.<b>WB;Human.</b><br/> <a href="#">PubMed:23826386</a></p> <p><b>[IF=2.24]</b>Feng, J. et al. "Upregulation of ATF-3 is correlated with prognosis and proliferation of laryngeal cancer by regulating Cyclin D1 expression" International Journal of Clinical and Experimental Pathology? 2013;6(10):2064-2070<b>other;</b><br/> <a href="#">PubMed:24133584</a></p> <p><b>[IF=4.77]</b>Aguirre, Alina, et al. "Defective autophagy impairs ATF3 activity and worsens lung injury during endotoxemia." Journal of Molecular Medicine (2014): 1-12.<b>IHC-P;Mouse.</b><br/> <a href="#">PubMed:24535031</a></p> <p><b>[IF=4.20]</b>Yuan, Qing, et al. "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." International Journal of Nanomedicine 9 (2014): 4829.<b>WB;Mouse.</b></p> |

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|-------------------------------|--|
|                               | <p style="text-align: right;"><a href="#">PubMed:25378924</a></p> <p><b>[IF=12.38]</b>Smith, Carolyne K., 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 factor 3 activity." <i>Annals of the Rheumatic Diseases</i> (2016): annrheumdis-2016.<b>FCM;Human.</b></p> <p style="text-align: right;"><a href="#">PubMed:27543414</a></p>  |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Cow,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 20kDa  |
| <b>Cellular localization:</b> | The nucleus  |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human ATF3:191-181/181   |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |
| <b>Product Detail:</b>        | <p>This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes. [provided by RefSeq, Apr 2011].</p> <p><b>Function:</b><br/>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.</p> <p><b>Subunit:</b><br/>Binds DNA as a homodimer or a heterodimer.</p> |

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the bZIP family. ATF subfamily.  
Contains 1 bZIP domain.

**SWISS:**

P18847

**Gene ID:**

467

**Database links:**

[Entrez Gene: 467](#) Human

[Entrez Gene: 11910](#) Mouse

[Entrez Gene: 25389](#) Rat

[Omim: 603148](#) Human

[SwissProt: P18847](#) Human

[SwissProt: Q60765](#) Mouse

[SwissProt: P29596](#) Rat

[Unigene: 460](#) Human

[Unigene: 2706](#) Mouse

[Unigene: 9664](#) Rat

**Important Note:**

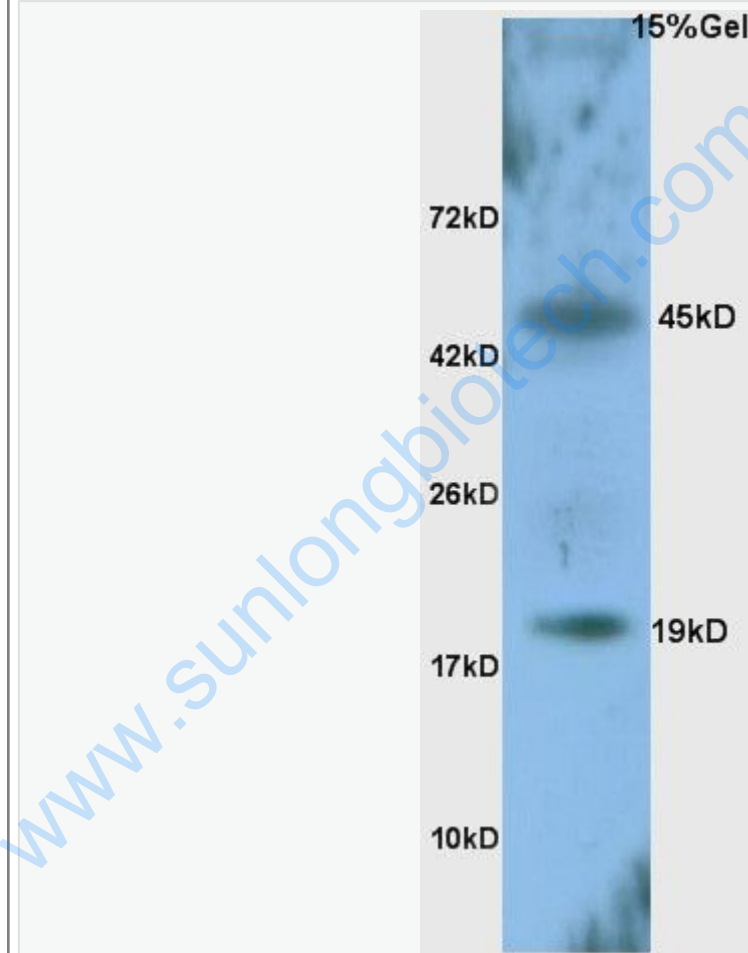
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transcriptional regulatory factor (Transcription Regulators)

活化转录因子-3(属于activation transcription factor/cAMP responsive element binding protein家族)是真核细胞转录因子,同属于ATF/CREB家族。参与由cAMP或某些病毒蛋白质所诱导基因转录的调节。

转录激活因子3(activating transcription factor 3,ATF3)属含亮氨酸拉链结构的转录因子ATF/CREB家族成员,分子量20kDa,在大部分正常细胞中呈低浓度稳态表达。在正常组织中含量很低,在应激状态是表达增加,形成二聚体。ATF3是个应激早期快反应基因,体内外可被一系列损伤性应激信号快速诱导表达。ATF3不仅在应激反应中是个关键性的调控因子,还广泛参与了机体稳态维持、创伤愈合、细胞黏附、Tumour形成、凋亡以及信号传导等生理和病理过程。ATF3与细胞生存和凋亡有关,但在不同的细胞状态下发挥不同甚至相反的作用。

Picture:



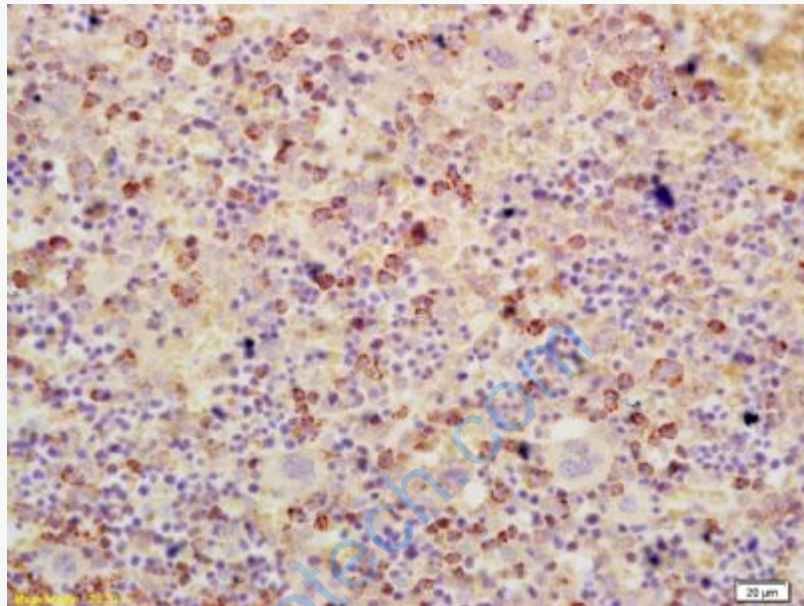
Sample: Embryo(Mouse) lysate 30ug;

Primary: Anti-ATF3 (SL0519R) at 1:200;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL0519R) at 1: 3000;

Predicted band size : 20kD

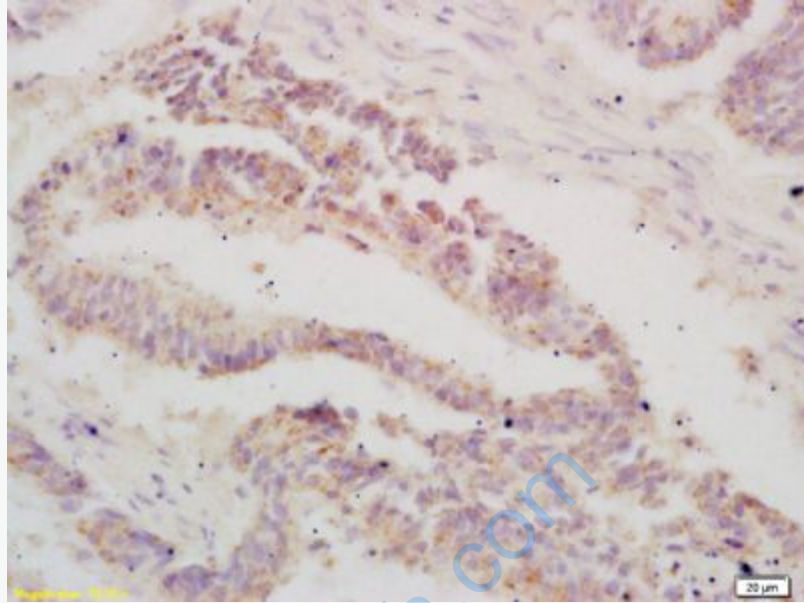
Observed band size : 19kD



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ATF3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

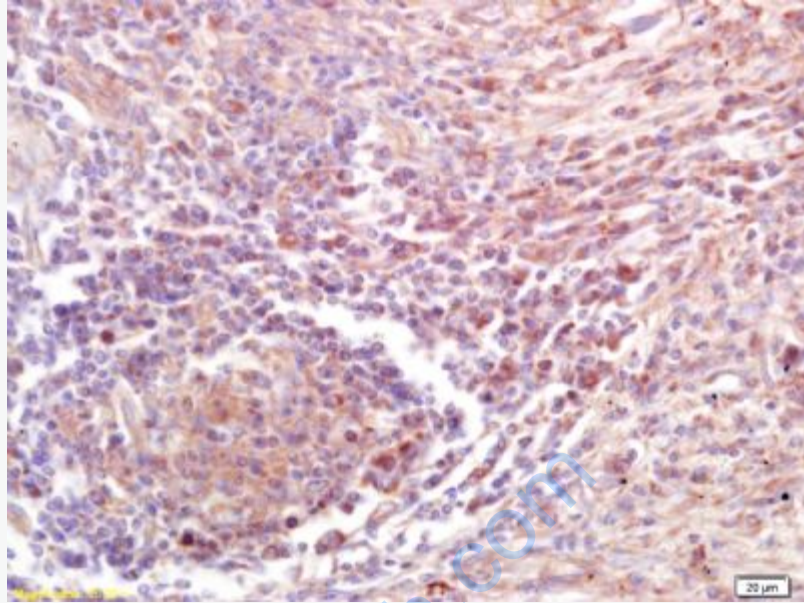


Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ATF3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

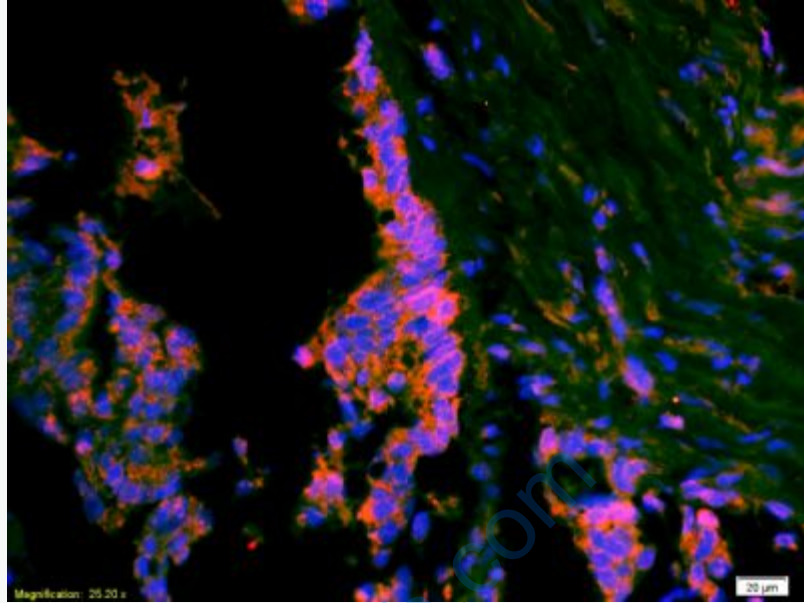




Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ATF3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ATF3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0519R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei