

Rabbit Anti-ATF3 antibody

SL0519R

Product Name ATF3

Chinese Name 活化转录因子 3 抗体

Alias 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.

Research Area Tumour Cell biology immunology Signal transduction Apoptosis transcriptional regulatory factor

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, (predicted: Rat, Chicken, Dog, Cow,)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 20kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ATF3: 51-150/181

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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].

Function:

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.

Subunit:

Binds DNA as a homodimer or a heterodimer.

**Product
Detail**

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

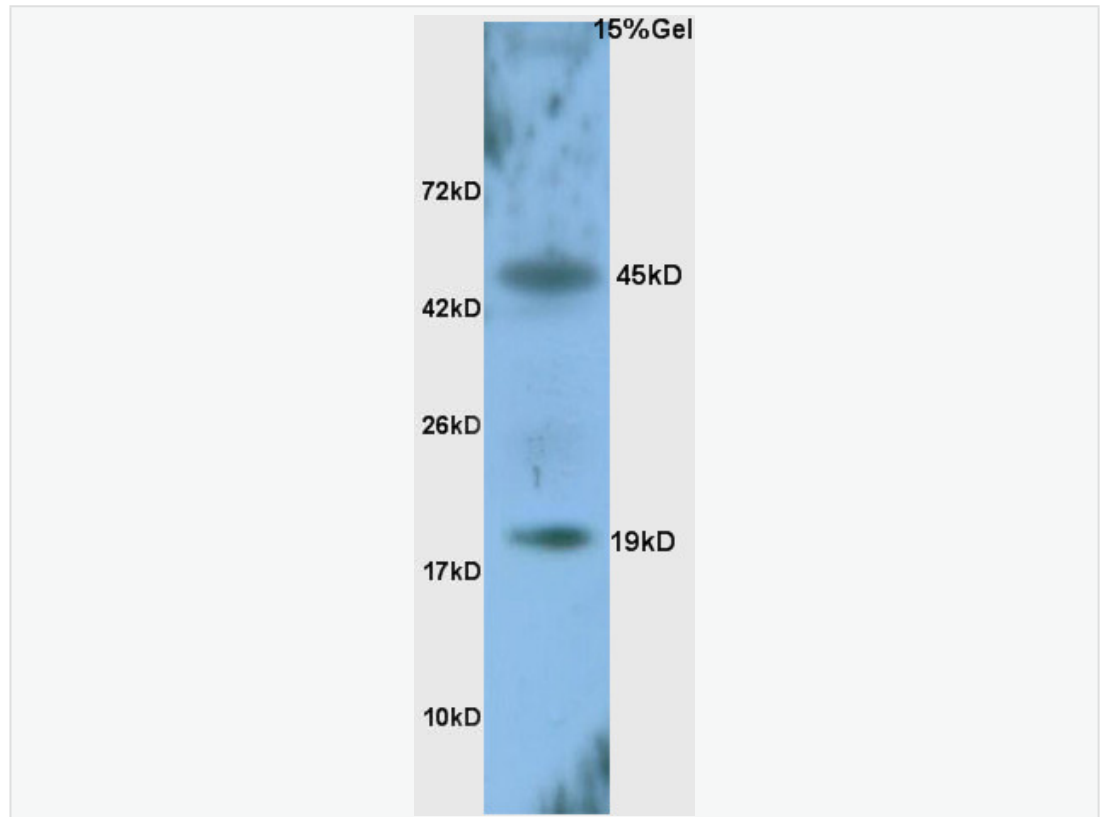
[Unigene: 9664](#) Rat

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。

**Product
Picture**



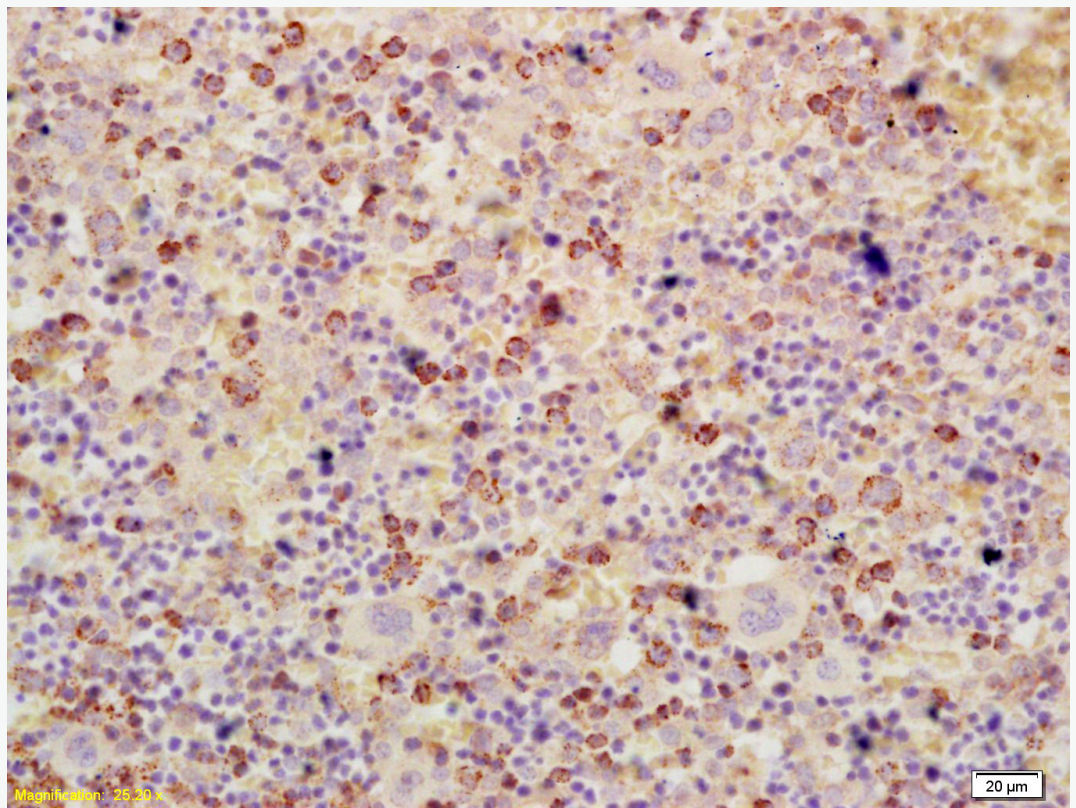
Sample: Embryo(Mouse) lysate 30ug;

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

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL0295G-HRP) at 1: 3000;

Predicted band size : 20kD

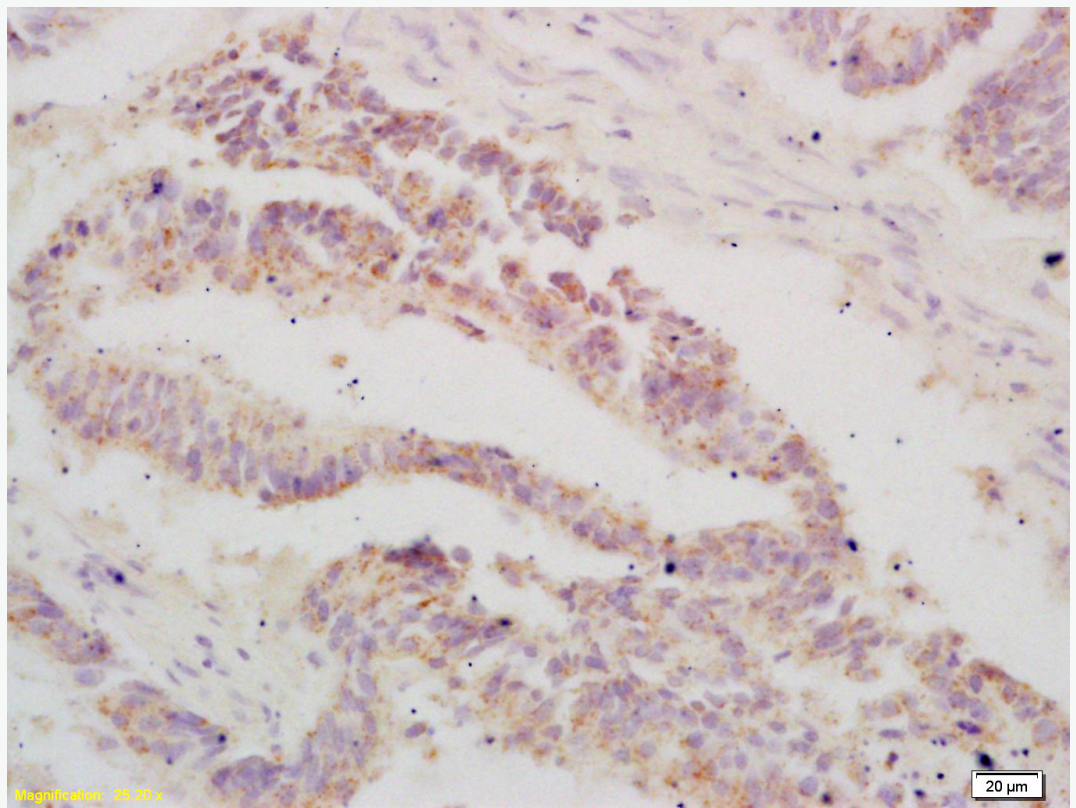
Observed band size : 19kD



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

Antigen retrieval: citrate buffer (1M, 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;

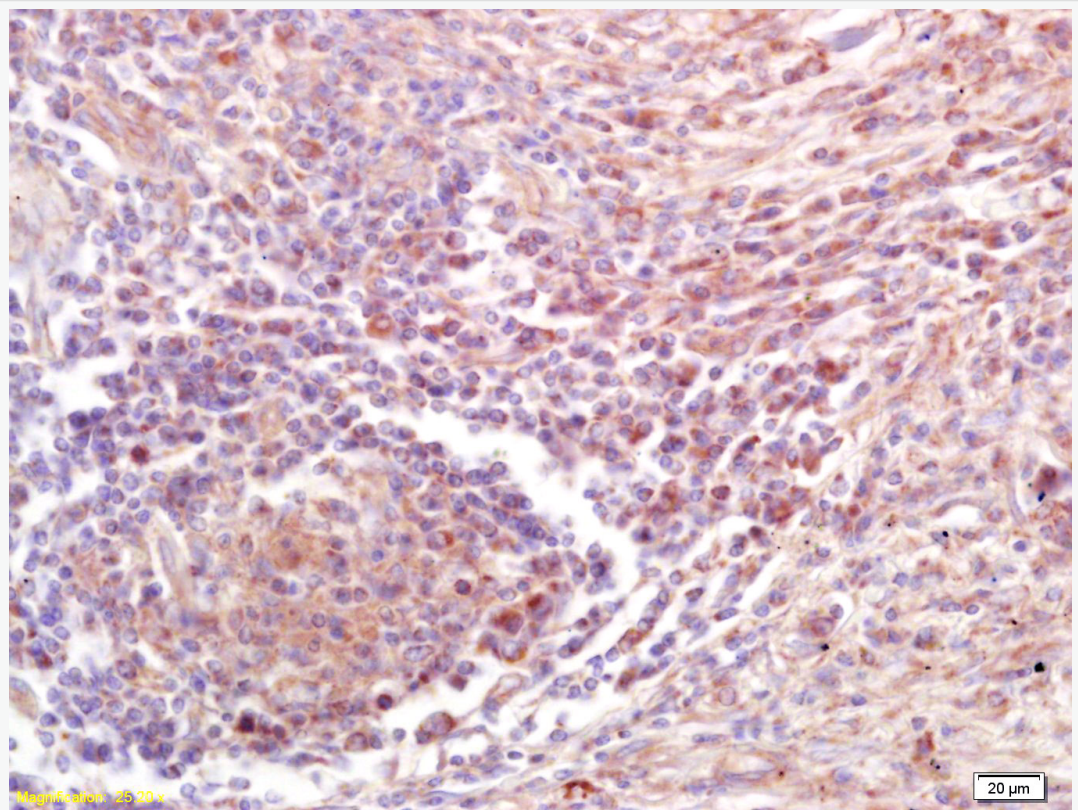
Incubation: Anti-ATF3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (1M, 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;

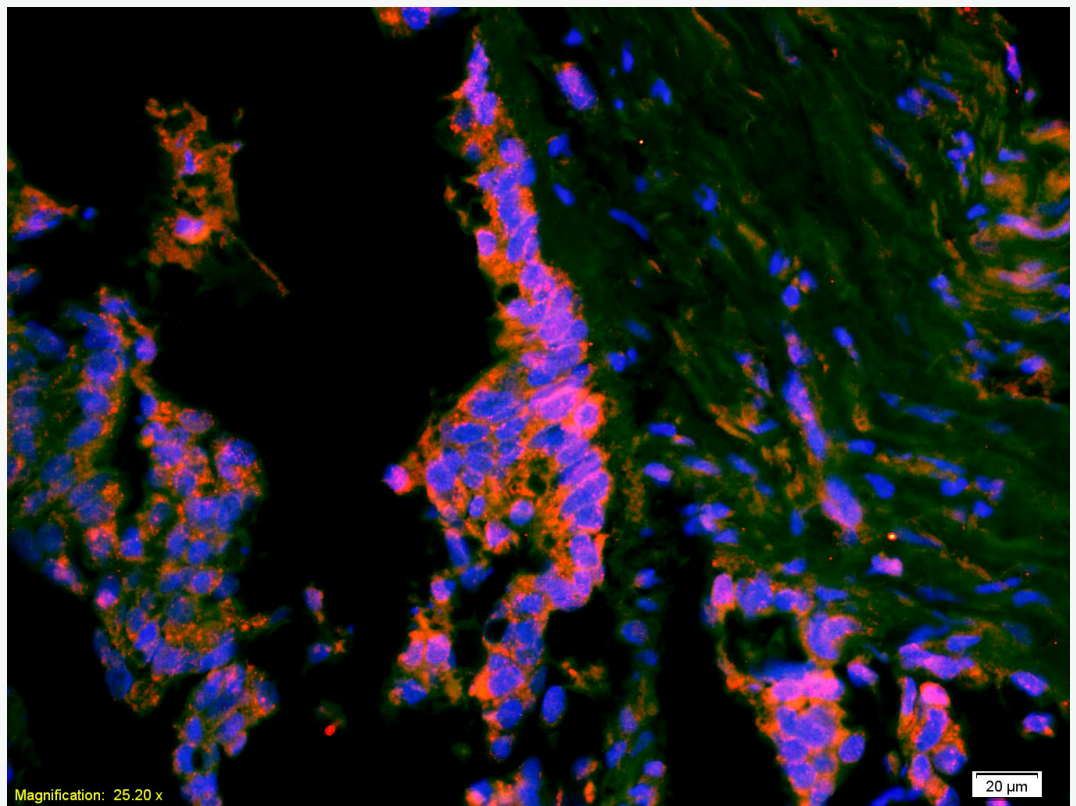
Incubation: Anti-ATf3 Polyclonal Antibody, Unconjugated(SL0519R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (1M, 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 (1M, 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(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

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