



Rabbit Anti-ST18 antibody

SL12188R

Product Name:	ST18
Chinese Name:	Tumour抑制蛋白18抗体
Alias:	KIAA0535; St18; ST18_HUMAN; suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein); Suppression of tumorigenicity 18 protein; Suppression of tumorigenicity protein 18; Zinc finger protein 387; Znf387.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	115kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ST18/Znf387:451-550/1047
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	ST18 is a 1,047 amino acid nuclear protein that is expressed at low levels in heart, liver, kidney, skeletal muscle, pancreas, testis, ovary and prostate. Containing six C2HC-type zinc fingers and an SMC domain, ST18 is a repressor protein that binds to DNA sequences containing a specific bipartite element. ST18 is considered a transcription factor that represses basal transcription activity from target promoters and Inhibits

colony formation in cultured breast cancer cells. ST18 is encoded by a gene located on human chromosome 8, which consists of nearly 146 million base pairs, encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

Function:

Repressor that binds to DNA sequences containing a bipartite element consisting of a direct repeat of the sequence 5'-AAAGTTT-3' separated by 2-9 nucleotides. Represses basal transcription activity from target promoters (By similarity). Inhibits colony formation in cultured breast cancer cells.

Subcellular Location:

Nucleus.

Tissue Specificity:

Detected at low levels in heart, liver, kidney, skeletal muscle, pancreas, testis, ovary and prostate. Detected at even lower levels in mammary epithelial cells and breast cancer cells.

Similarity:

Contains 6 C2HC-type zinc fingers.

SWISS:

O60284

Gene ID:

9705

Database links:

[Entrez Gene: 9705](#) Human

[Entrez Gene: 240690](#) Mouse

[Entrez Gene: 266680](#) Rat

[SwissProt: O60284](#) Human

[SwissProt: Q80TY4](#) Mouse

[SwissProt: Q9QX27](#) Rat

[Unigene: 655499](#) Human

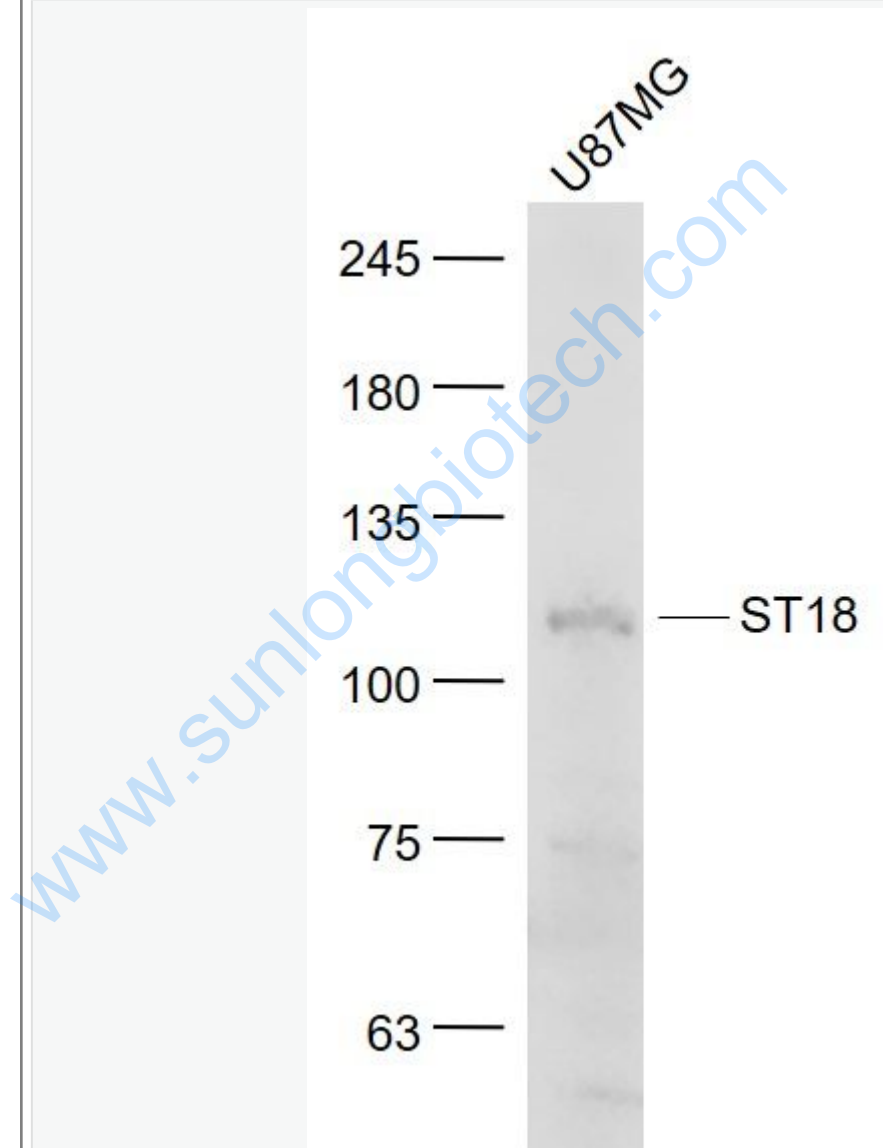
[Unigene: 234612](#) Mouse

[Unigene: 91311](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

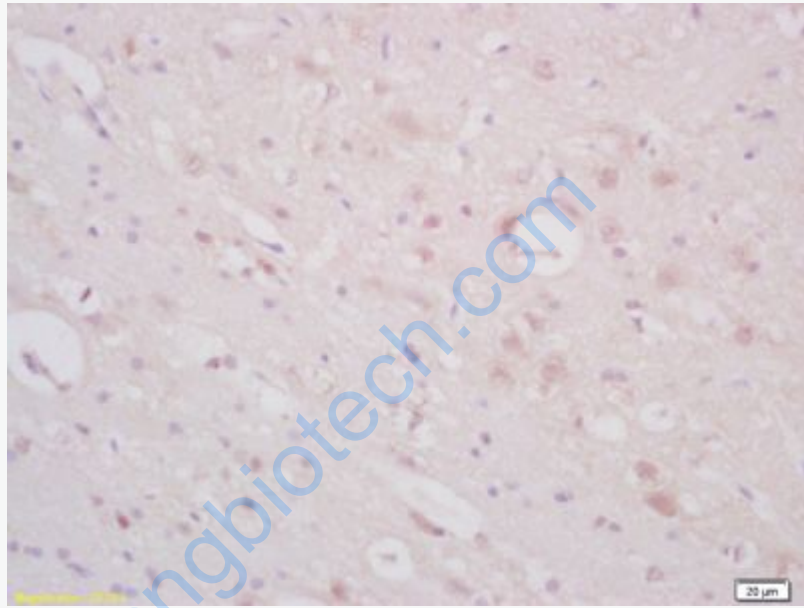
U87MG(Human) Cell Lysate at 30 ug

Primary: Anti- ST18 (SL12188R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 115 kD

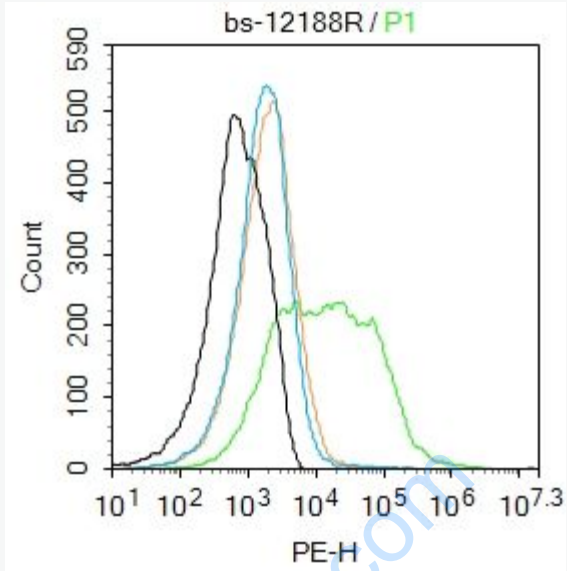
Observed band size: 115 kD



Tissue/cell: rat brain 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-ST18 Polyclonal Antibody, Unconjugated(SL12188R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Mouse kidney.

Primary Antibody (green line): Rabbit Anti-ST18 antibody (SL12188R)

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein

interactions for 30 min at room temperature .Cells stained with Primary Antibody

for 30 min at room temperature. The secondary antibody used for 40 min at room

temperature. Acquisition of 20,000 events was performed.