SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-TBX3 antibody

SL10266R

Product Name	TBX3
Chinese Name	转录因子 Tbx3 抗体
Alias	T-box protein 3; T-box transcription factor TBX3; TBX3; TBX3-ISO; TBX3 ISO; UMS; XHL; Bladder cancer related protein XHL; T box 3; TBX3_HUMAN.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat, Dog, Pig, Cow, Horse, Rabbit,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=3ug/test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	82kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TBX3: 101-200/743
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℃. 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
Product Detail	Tbx3 gene is a member of a phylogenetically conserved family of genes that share a common DNA binding domain, the T box. T box genes encode transcription factors involved in the regulation of developmental processes. Tbx3 is a transcriptional

repressor and is thought to play a role in the anterior/posterior axis of the tetrapod forelimb. Mutations in this gene cause ulnar mammary syndrome, affecting limb, apocrine gland, tooth, hair, and genital development. Alternative splicing of this gene results in three transcript variants encoding different isoforms; however, the full length nature of one variant has not been determined.

Function:
Transcriptional repressor involved in developmental processes. Probably plays a role in limb pattern formation.

Subcellular Location:
Nucleus (Potential).

Tissue Specificity:
Widely expressed.

DISEASE:
Defects in TBX3 are the cause of ulnar-mammary syndrome (UMS) [MIM:181450]. UMS is characterized by ulnar ray defects, obesity, hypogenitalism, delayed puberty, hypoplasia of nipples and apocrine glands.

Similarity:
Contains 1 T-box DNA-binding domain.

SWISS:
O15119

Gene ID:
6926

Database links:

Entrez Gene: 6926 Human

Entrez Gene: 21386 Mouse

Entrez Gene: 353305 Rat

Omim: 601621 Human

SwissProt: O15119 Human

SwissProt: P70324 Mouse

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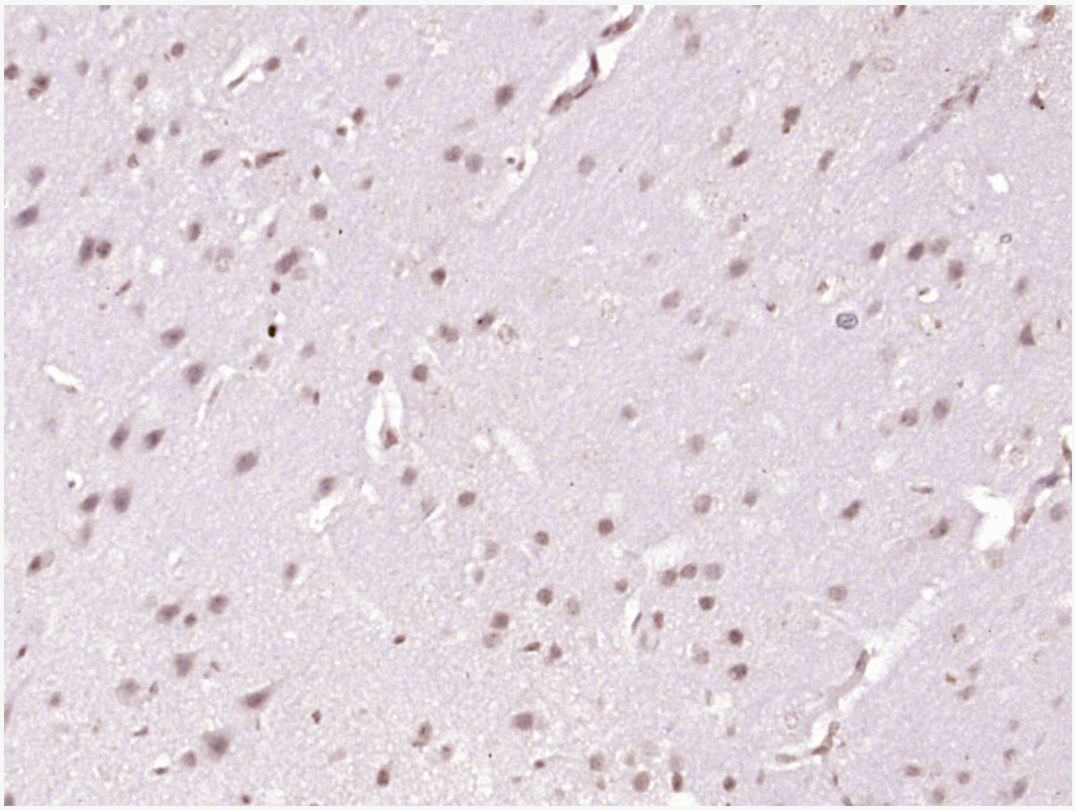
SwissProt: Q7TST9 Rat

Unigene: 129895 Human

Unigene: 219139 Mouse

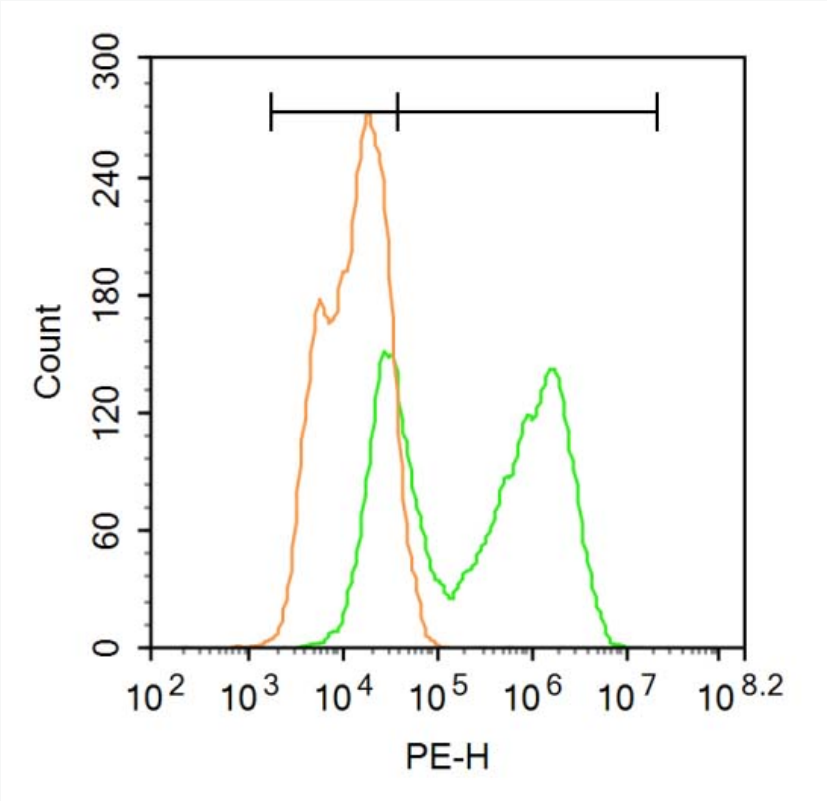
Unigene: 162144 Rat

Product Picture



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TBX3) Polyclonal Antibody, Unconjugated (SL10266R) at 1:400 overnight at 4°C, followed by operating

according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:A549.

Primary Antibody (green line): Rabbit Anti-TBX3 antibody (SL10266R)

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 3μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then

permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at 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.