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Rabbit Anti-TBX2 antibody

SL1104R

Product Name:	TBX2
Chinese Name:	新型抑癌基因抗体
Alias:	T-bet; T-box2; T-box Protein 2; T-box transcription factor TBX2; T-box protein 2; FLJ10169; HGNC: 11597; T box 2; T box transcription factor TBX2; TBX2; TBX2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	74kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TBX2:401-500/701
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:	This 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. This gene product is the human homolog of mouse Tbx2, and shares strong sequence similarity with Drosophila omb protein. Expression studies indicate that this gene may have a potential role in

tumorigenesis as an immortalizing agent. Transcript heterogeneity due to alternative polyadenylation has been noted for this gene.

Function:
Involved in the transcriptional regulation of genes required for mesoderm differentiation. Probably plays a role in limb pattern formation. Acts as a negative regulator of PML function in cellular senescence.

Subunit:
Interacts with PML (isoform-PML-2, isoform PML-3 and isoform PML-4).

Subcellular Location:
Nucleus.

Tissue Specificity:
Expressed primarily in adult in kidney, lung, and placenta. Weak expression in heart and ovary.

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

SWISS:
Q13207

Gene ID:
6909

Database links:

Entrez Gene: 6909Human

Entrez Gene: 21385Mouse

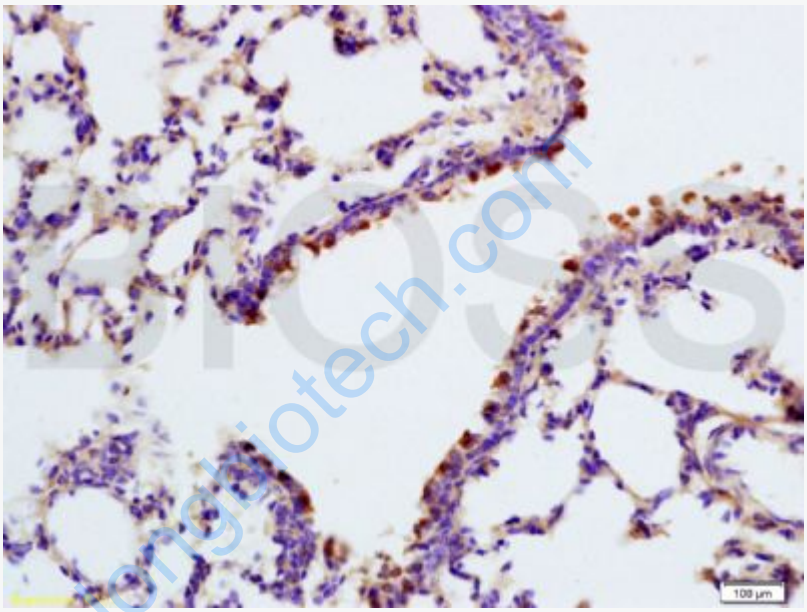
Omim: 600747Human

SwissProt: Q13207Human

SwissProt: Q60707Mouse

Unigene: 531085Human

Unigene: 287052Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 经研究发现，在人黑色素瘤及很多恶性Tumour组织中普遍存在TBX2基因表达的增高,该蛋白与恶性Tumour的发生、发展密切相关.TBX2基因被认为是一种新发现的抑癌基因。
Picture:	 Tissue/cell: rat lung 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℃ for 20 min; Incubation: Anti-TBX2/T-box2 Polyclonal Antibody, Unconjugated(SL1104R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining