SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-TBX3 antibody

**Catalog Number: SL22586R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

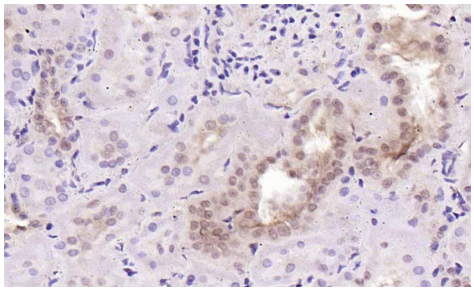
| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | TBX3 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human TBX3: 181-280/743 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=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. |
| **Reactivity:** | Mouse,Rat(predicted:Human,Rabbit) |
| **Predicted MW.:** | 82kDa |
| **Subcellular Location:** | The nucleus |
| **Background:** | 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.<br>**Function:** Transcriptional repressor involved in developmental processes. Probably plays a role in limb pattern formation.<br>**Subcellular Location:** Nucleus (Potential).<br>**Tissue Specificity:** Widely expressed. |

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

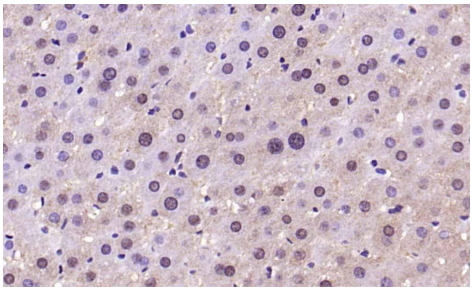
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| | |
|---|---|
| | DISEASE: Defects in TBX3 are the cause of ulnar-mammary syndrome (UMS) [MIM:181450]. UMS is characterized by ulnar ray defects, obesity, hypogenitalism, delayed puberty, hypoplasia of nipples and apocrine glands.<br>**Similarity:** Contains 1 T-box DNA-binding domain.<br>**Database links:**<br>**Entrez Gene:** 6926 Human<br>**Entrez Gene:** 21386 Mouse<br>**Entrez Gene:** 353305 Rat<br>Omim: 601621 Human<br>**SwissProt:** O15119 Human<br>**SwissProt:** P70324 Mouse<br>**SwissProt:** Q7TST9 Rat<br>**Unigene:** 129895 Human<br>**Unigene:** 219139 Mouse<br>**Unigene:** 162144 Rat |

## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (rat kidney); 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 (SL22586R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat liver); 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 (SL22586R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

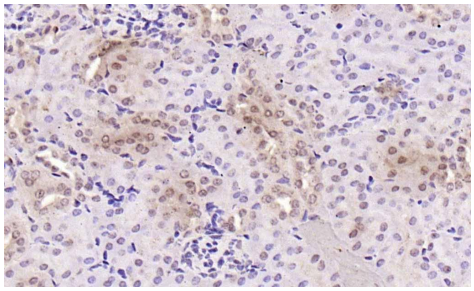
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Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TBX3) Polyclonal Antibody, Unconjugated (SL22586R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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