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TBX5 Rabbit pAb

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Catalog # AP57755

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99593
Reactivity	Human
Predicted	Rat, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57711
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TBX-5
Epitope Specificity	1-100/518
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
DISEASE	Defects in TBX5 are the cause of Holt-Oram syndrome (HOS) [MIM:142900]. HOS is a developmental disorder affecting the heart and upper limbs. It is characterized by thumb anomaly and atrial septal defects.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Involved in the transcriptional regulation of genes required for mesoderm differentiation. Probably plays a role in limb pattern formation. Involvement in disease:Defects in TBX5 are the cause of Holt-Oram syndrome (HOS). HOS is a developmental disorder affecting the heart and upper limbs. It is characterized by thumb anomaly and atrial septal defects.

Additional Information

Gene ID	6910
Other Names	T-box transcription factor TBX5, T-box protein 5, TBX5
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

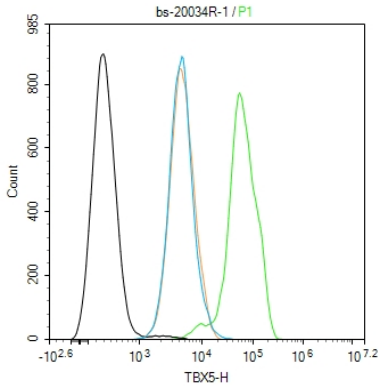
Protein Information

Name	TBX5
Function	DNA-binding protein that regulates the transcription of several genes and is involved in heart development and limb pattern formation (PubMed:25725155, PubMed:25963046, PubMed:26917986, PubMed:27035640, PubMed:29174768, PubMed:8988164). Binds to the core DNA motif of NPPA promoter (PubMed:26926761).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201, ECO:0000269|PubMed:29174768}. Cytoplasm Note=Shuttles between the cytoplasm and the nucleus. Acetylation at Lys-339 promotes nuclear retention.

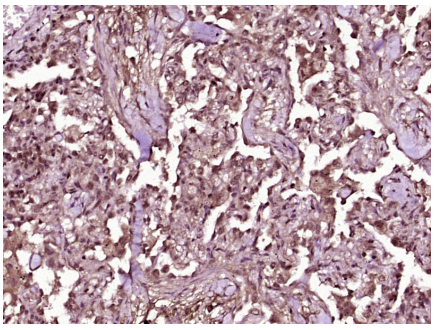
Background

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Images



Blank control(black line):Hela.
Primary Antibody (green line): Rabbit Anti-TBX5 antibody (AP57755)
Dilution:1ug/Test;
Secondary Antibody(white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5ug/Test.
Isotype control(orange line): Normal Rabbit IgG
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 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.



Paraformaldehyde-fixed, paraffin embedded (Human lung carcinoma); 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 (TBX-5) Polyclonal Antibody, Unconjugated (AP57755) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.