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TBX5 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10507

Product Information

Application	WB, IHC
Primary Accession	Q99593
Other Accession	NM_000192, NP_000183
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Dog, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57711

Additional Information

Gene ID	6910
Alias Symbol	HOS
Other Names	T-box transcription factor TBX5, T-box protein 5, TBX5
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-TBX5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	TBX5 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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.

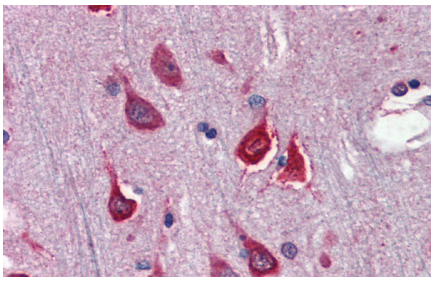
References

Zaragoza,M.V., et al., (2004) Gene 330, 38978Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.Publications:Lu, J. et al. Induction of apoptosis and inhibition of cell growth by tbx5 knockdown contribute to dysmorphogenesis in Zebrafish embryos. J. Biomed. Sci. 18, 73 (2011). WB, Rat, Sheep, Goat, Human, Dog, Bovine, Pig, Horse, Rabbit, Guinea pig, Mouse, Zebrafish21982178Zhang, Y., Huang, L., Zuo, Z., Chen, Y. & Wang, C. Phenanthrene exposure causes cardiac arrhythmia in embryonic zebrafish via perturbing calcium handling. Aquat. Toxicol. 142-143, 26-32 (2013). WB, Rat, Sheep, Goat, Human, Dog, Bovine, Pig, Horse, Rabbit, Guinea pig, Mouse, Zebrafish23948075Baban, A. et al. Holt-Oram syndrome with intermediate atrioventricular canal defect, and aortic coarctation: functional characterization of a de novo TBX5 mutation. Am. J. Med. Genet. A 164A, 1419-24 (2014). WB, Rat, Sheep, Goat, Human, Dog, Bovine, Pig, Horse, Rabbit, Guinea pig, Mouse, Zebrafish24664498

Images



WB Suggested Anti-TBX5 Antibody Titration: .2-1 ug/ml
ELISA Titer: 1:3125
Positive Control: HepG2 cell lysate



Immunohistochemistry with Human Brain, cortex tissue at an antibody concentration of 5.ug/ml using anti-TBX5 antibody (AI157)

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