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Anti-TBX2/3 Antibody

Catalog # AP53941

Product Information

Application	WB, IF/IC
Primary Accession	O15119
Other Accession	Q13207
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79389

Additional Information

Gene ID	6926
Other Names	TBX3; T-box transcription factor TBX3; T-box protein 3; TBX2; T-box transcription factor TBX2; T-box protein 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TBX2/3. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

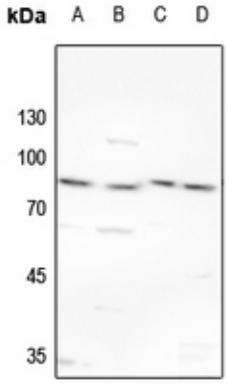
Name	TBX3
Function	Transcriptional repressor involved in developmental processes (PubMed:10468588). Binds to the palindromic T site 5'-TTCACACCTAGGTGTGAA-3' DNA sequence, or a half-site, which are present in the regulatory region of several genes (PubMed:12000749). Probably plays a role in limb pattern formation (PubMed:10468588). Required for mammary placode induction, and maintenance of the mammary buds during development (By similarity). Involved in branching morphogenesis in both developing lungs and adult mammary glands, via negative modulation of target genes; acting redundantly with TBX2 (By similarity). Required, together with TBX2, to maintain cell proliferation in the embryonic lung mesenchyme; perhaps acting downstream of SHH, BMP and TGFbeta signaling (By similarity). Involved in modulating early inner ear development, acting independently of, and also redundantly with, TBX2 in different subregions of the developing ear (By similarity). Acts as a negative regulator of PML function

in cellular senescence (PubMed:22002537).

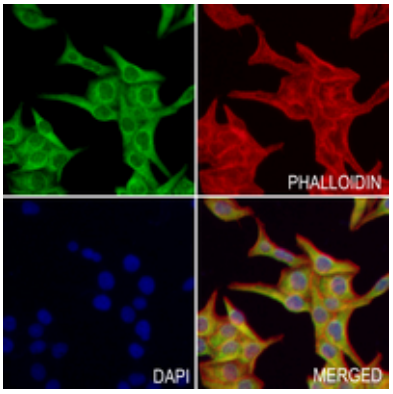
Cellular Location Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201}.

Tissue Location Widely expressed.

Images



Western blot analysis of TBX2/3 expression in HEK293T (A), Hela (B), H446 (C), rat kidney (D) whole cell lysates. (Predicted band size: 79; 75 kD; Observed band size: 79 kD)



Immunofluorescent analysis of TBX2/3 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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