

Product datasheet

Anti-Tbx3 Antibody [RP23040141] ab313456

Recombinant

2 Images

Overview

Product name	Anti-Tbx3 Antibody [RP23040141]
Description	Rabbit recombinant multiclonal [RP23040141] to Tbx3
Host species	Rabbit
Tested applications	Suitable for: ChIP, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human Tbx3 aa 300-500. Database link: O15119
Positive control	ICC/IF - MCF7 cells ChIP - HEPG2 cells
General notes	<p>Recombinant multiconals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains.</p> <p>Recombinant multiclonal antibodies offer the sensitivity of polyclonal antibodies by recognising multiple epitopes, along with consistency of a recombinant antibody.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: 99.91% PBS
Purity	Protein A purified
Clonality	Recombinant Multiclonal
Clone number	RP23040141
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab313456 in the following tested applications.

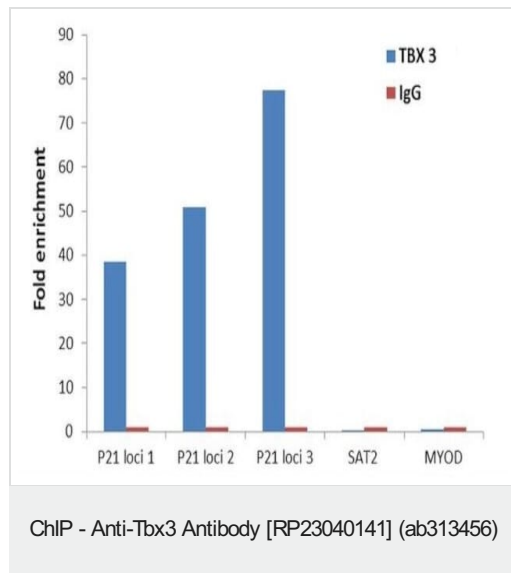
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP		Use at an assay dependent concentration. 2.5 µg x 10 ⁶ cells
ICC/IF		Use a concentration of 2 µg/ml.

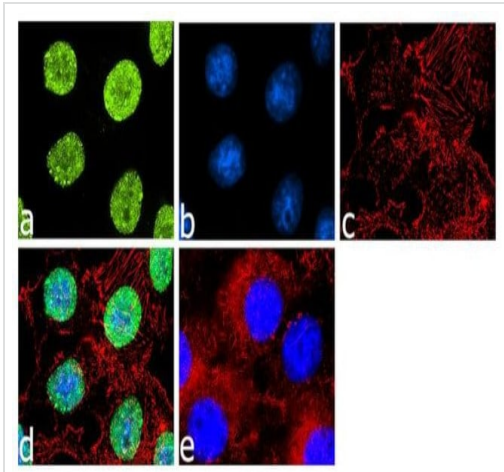
Target

Function	Transcriptional repressor involved in developmental processes. Probably plays a role in limb pattern formation.
Tissue specificity	Widely expressed.
Involvement in 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.
Sequence similarities	Contains 1 T-box DNA-binding domain.
Cellular localization	Nucleus.

Images



Enrichment of endogenous TBX3 protein at specific gene loci using ab313456: Chromatin Immunoprecipitation (ChIP) was performed using ab313456(5 ug) on sheared chromatin from 2 million HEPG2 cells. Normal Rabbit IgG (1 ug) was used as a negative IP control. The purified DNA was analyzed by 7500 Fast qPCR system with optimized PCR primer pairs for the different loci of the active P21 promoter region used as positive control target genes, and the region of the inactive MYOD, SAT2 satellite repeat, used as negative control target gene. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.



Immunocytochemistry/ Immunofluorescence - Anti-Tbx3 Antibody [RP23040141] (ab313456)

For immunofluorescence analysis, MCF7 cells were fixed and permeabilized for detection of endogenous TBX3 using AB313456 (2 ug/ml) and labeled with Goat anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor® 488 conjugate (1:2000). Panel a) shows representative cells that were stained for detection and localization of TBX3 protein (green), Panel b) is stained for nuclei (blue) using SlowFade DAPI. Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear localization of TBX3. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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