Product Datasheet

Thymosin beta 4 Antibody - Azide and BSA Free
H00007114-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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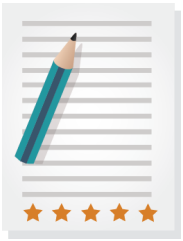


H00007114-B01P

Thymosin beta 4 Antibody - Azide and BSA Free

Product Information

Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

Product Description

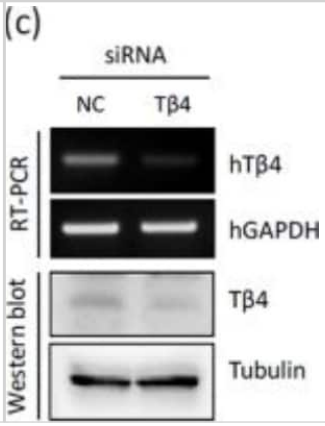
Description	Quality control test: Antibody reactive against mammalian transfected lysate.
Host	Mouse
Gene ID	7114
Gene Symbol	TMSB4X
Species	Human, Rat
Specificity/Sensitivity	TMSB4X - thymosin, beta 4, X-linked,
Immunogen	TMSB4X (AAH01631.1, 1 a.a. - 44 a.a.) full-length human protein. MSDKPDMAEIEKFDKSKLKKTETQEKNPLPSKETIEQEKQAGES
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details

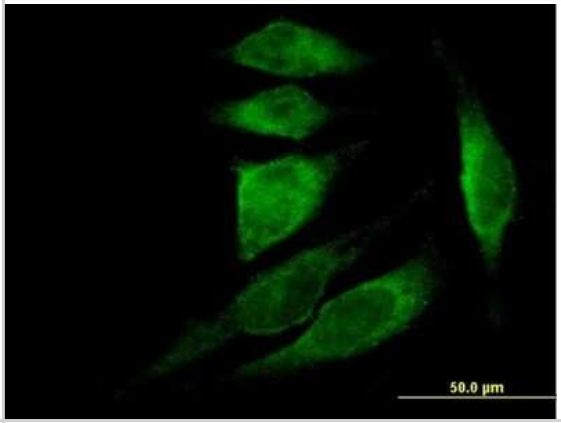
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB and also on transfected lysate in WB. GST tag alone is used as a negative control. It has been used for IF.

Images

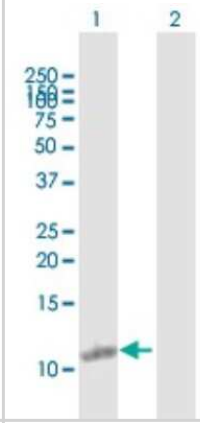
Western Blot: Thymosin beta 4 Antibody [H00007114-B01P] - Effect of TBeta4 on primary cilia formation in HeLa cells.The mRNA (upper) and protein (lower) expression of TBeta4 were shown. Image collected and cropped by CiteAb from the following publication (//www.nature.com/articles/s41598-019-43235-1) licensed under a CC-BY license.



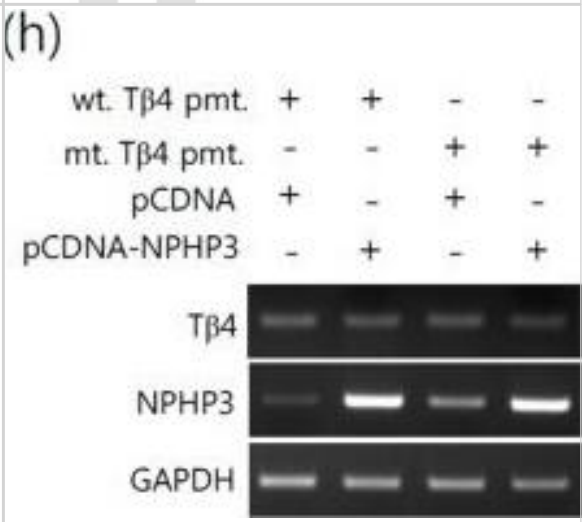
Immunocytochemistry/Immunofluorescence: Thymosin beta 4 Antibody [H00007114-B01P] - Analysis of purified antibody to TMSB4X on HeLa cell. (antibody concentration 10 ug/ml)



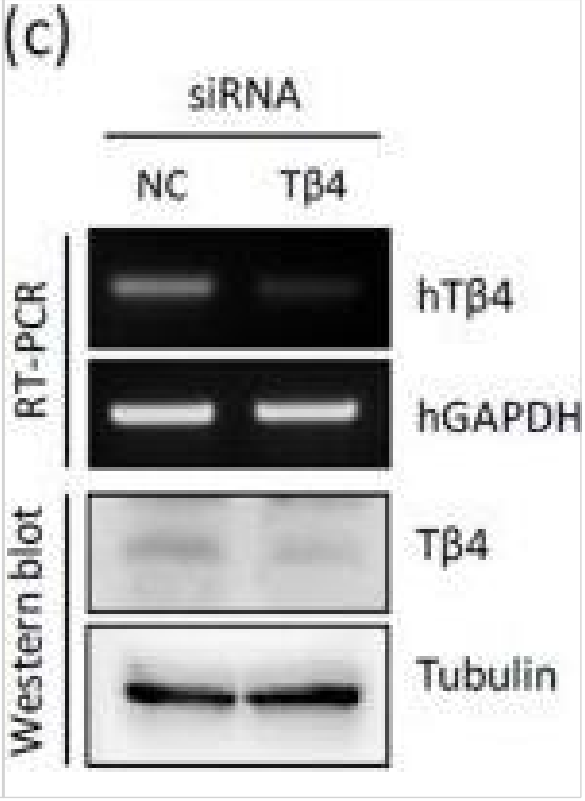
Western Blot: Thymosin beta 4 Antibody [H00007114-B01P] - Analysis of TMSB4X expression in transfected 293T cell line by TMSB4X polyclonal antibody. Lane 1: TMSB4X transfected lysate(4.84 KDa). Lane 2: Non-transfected lysate.



Western Blot: Thymosin beta 4 Antibody [H00007114-B01P] - No effect of Tβ4 on upstream-deleted mutant of NPHP3-promoter (pmt.). (a) Mutant (mt.) NPHP3-promoter plasmids were prepared from wildtype (wt.) promoter. (b–e) HeLa cells were transfected with pCMV-2B or pCMV-Tβ4 for 24 h. (b) HeLa cells were co-transfected with wildtype or mutant pEZX-PG02-NPHP3-promoter Gluc plasmid. & Gluc activity in cultured media was measured with luminometer using Gluc substrate. Bar graph indicates the mean of NPHP3-promoter activity. (c) Expression level of Tβ4 & NPHP3 transcripts were measured by RT-PCR. (d) The cells were fixed & stained with antibody against Ac-tubulin (red) & DAPI (blue). (e) The ciliated cells in pCMV-2B- (white) or pCMV-Tβ4-transfected group (grey) were counted. (f) Mutant (mt.) Tβ4 -promoter plasmids were prepared from wildtype (wt.) promoter. (g,h) HeLa cells were transfected with pCDNA3.1 or pCDNA6-NPH3 for 24 h. (g) HeLa cells were co-transfected with wildtype or mutant pEZX-PG02-Tβ4-promoter Gluc plasmid. & Gluc activity in cultured media was measured with luminometer using Gluc substrate. Bar graph indicates the mean of Tβ4-promoter activity. (h) Expression level of Tβ4 & NPHP3 transcripts were measured by RT-PCR. Processing (such as changing brightness & contrast) is applied equally to controls across the entire image (c,d & h). Data in a bar graph represent the means ± SEM. **p < 0.01; significantly different from control group. &&p < 0.01; significantly different from wildtype promoter plasmid-transfected group. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31048733), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: Thymosin beta 4 Antibody [H00007114-B01P] - Effect of Tβ4 on primary cilia formation in HeLa cells. (a) HeLa ells were incubated in serum-starved media with 0.1% FBS for 36 h. The cells were fixed & stained with antibody against Ac-tubulin (green) or NPHP3 (red). The representative fluorescence image of primary cilia was shown. (b) Overlay of fluorescence intensity of Ac-tubulin (green) & NPHP3 (red) through the whole length of primary cilia was shown in line graph (Line scan * → ** in a, right). (c,d) Cells were transfected with AccuTarget™ negative control siRNA (NC) or Tβ4-siRNA for 24 h. (c) The mRNA (upper) & protein (lower) expression of Tβ4 were shown. (d) The cells were incubated in serum-starved media for 36 h, fixed & stained with antibody against Ac-tubulin (green) & DAPI (blue). The ciliated cells in AccuTarget™ negative control siRNA-treated (white) & Tβ4-knockdown cells (grey) were counted (n > 500 cells). (e,f) Cells were transfected with pEGFP-2B or pEGFP-Tβ4 plasmid for 24 h. (e) The expression of GFP & Tβ4-GFP were detected with GFP antibody. (f) The cells were fixed & stained with antibody against Ac-tubulin (red) & DAPI (blue). The ciliated cells in GFP (white) or Tβ4-GFP-positive cells (grey) were counted. Processing (such as changing brightness & contrast) is applied equally to controls across the entire image. Data in a bar graph represent the means ± SEM. **p < 0.01; significantly different from control cells. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31048733), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lee JW, Kim HS, Moon EY Thymosin beta-4 is a novel regulator for primary cilium formation by nephronophthisis 3 in HeLa human cervical cancer cells Sci Rep 2019-05-02 [PMID: 31048733]

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Products Related to H00007114-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NBP2-35087-100ug	Recombinant Human Thymosin beta 4 Protein

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