

# Product Datasheet

## tropomyosin-3 Antibody (2E4) - Azide and BSA Free H00007170-M02

Unit Size: 0.1 mg

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

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**H00007170-M02**

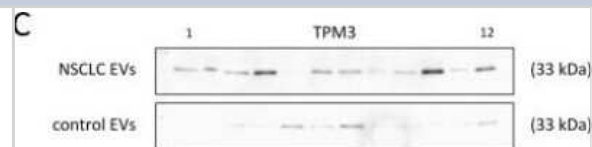
tropomyosin-3 Antibody (2E4) - Azide and BSA Free

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2E4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
Product Description	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	7170
<b>Gene Symbol</b>	TPM3
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	TPM3 - tropomyosin 3 (2E4)
<b>Immunogen</b>	TPM3 (AAH15403, 1 a.a. ~ 248 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MAGITTIEAVKRKIQVLQQQADDAEERAERLQREVEGERRAREQAEAEVASLN RRIQLVEEELDRAQERLATALQKLEEAKEAADESERGMKVIENTRALKDEEKMEL QEIQLKEAKHIAEEADRKYEEVARKLVIIIEGDLERTEERAELAESRCREMDEQIR LMDQNLKRLSAAEEKYSQKEDKYEIGEIKILTDKLKEAETRAEFAERSVAKLEKTI DDLEDKCLKCTKEEHLCTQRMLDQTLDDLNEM
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA
<b>Application Notes</b>	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB. GST tag alone is used as a negative control.

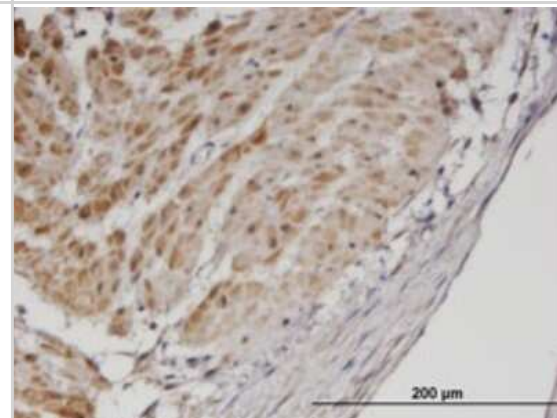


## Images

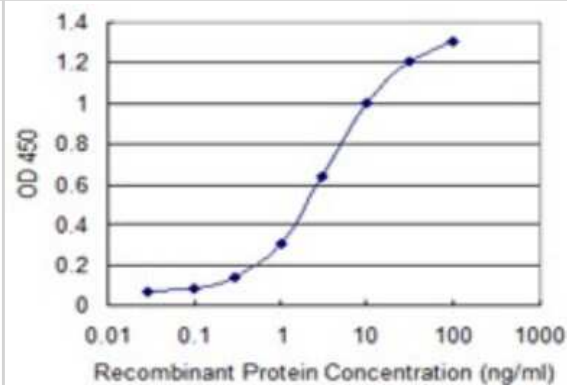
Western Blot: tropomyosin-3 Antibody (2E4) [H00007170-M02] - Enrichment of tumor proteins in plasma-derived EVs and classifier performance. Immunoblot analysis of plasma-derived extracellular vesicles from adenocarcinoma cases and matched controls to demonstrate marker performance in immunoassay. Marker abundance as quantified by densitometry of western blot, lower left; ROC curve analysis of TPM3 performance based on western blot data, lower right. Image collected and cropped by CiteAb from the following publication (<http://www.oncotarget.com/fulltext/20748>) licensed under a CC-BY license.



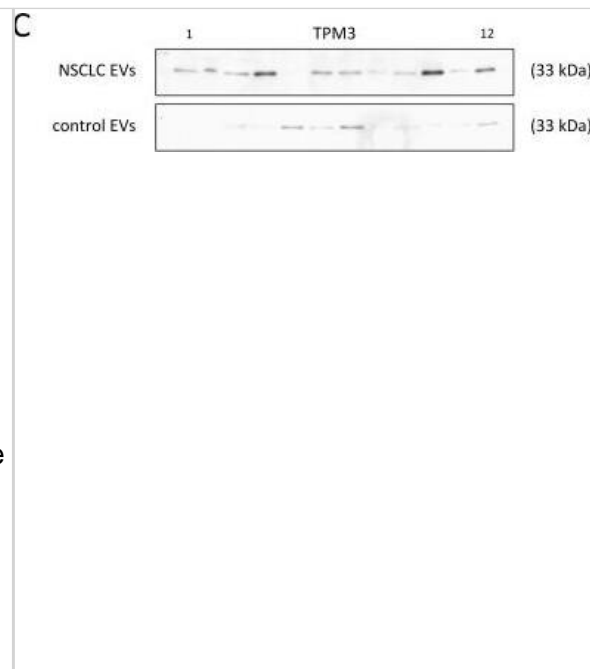
Immunohistochemistry-Paraffin: tropomyosin-3 Antibody (2E4) [H00007170-M02] - Analysis of monoclonal antibody to TPM3 on formalin-fixed paraffin-embedded human smooth muscle. Antibody concentration 3 ug/ml.



Sandwich ELISA: tropomyosin-3 Antibody (2E4) [H00007170-M02] - Detection limit for recombinant GST tagged TPM3 is 0.1 ng/ml as a capture antibody.



Western Blot: tropomyosin-3 Antibody (2E4) [H00007170-M02] - Enrichment of tumor proteins in plasma-derived EVs & classifier performance (A) Differential enrichment of EV proteins was evaluated for proteins with  $\geq 3$ -fold case:control expression &  $p < 0.05$ . The average normalized spectral abundance factor (NSAF) for each protein was calculated from respective LC-MS/MS proteomic analyses of adenocarcinoma case plasma-derived EVs (●) black circle; disease free control plasma-derived EVs (○) open circle; & unfractionated plasma from paired cancer, lung disease & control specimens (◇) diamond. (B) Receiver operating characteristic curve analyses of top performing plasma EV protein markers SRGN (red), TPM3 (blue), THBS1 (violet), & HUWE1 (green). The four marker combination (yellow) yielded an AUC of 0.8995. (C) Immunoblot analysis of plasma-derived extracellular vesicles from adenocarcinoma cases & matched controls to demonstrate marker performance in immunoassay. Marker abundance as quantified by densitometry of western blot, lower left; ROC curve analysis of TPM3 performance based on western blot data, lower right. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29221141>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Vykoukal J, Sun N, Aguilar-Bonavides C et al. Plasma-derived extracellular vesicle proteins as a source of biomarkers for lung adenocarcinoma. *Oncotarget* 2017-11-10 [PMID: 29221141] (WB, Human)

Doukhanine E, Gavino C, Haines JD et al. The QKI-6 RNA Binding Protein Regulates Actin-interacting Protein-1 mRNA Stability during Oligodendrocyte Differentiation. *Mol Biol Cell*. 2010-07-14 [PMID: 20631256]



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### **Products Related to H00007170-M02**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-78867-50ug	Recombinant Human tropomyosin-3 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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