

# Product Datasheet

## TMEPAI Antibody (2A12) - Azide and BSA Free H00056937-M01

Unit Size: 0.1 mg

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

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**H00056937-M01**

TMEPAI Antibody (2A12) - 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>	2A12
<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**

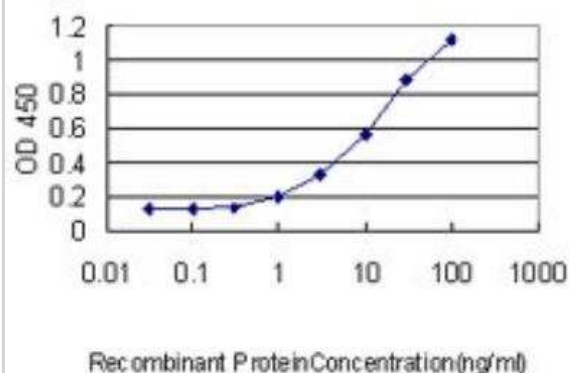
<b>Host</b>	Mouse
<b>Gene ID</b>	56937
<b>Gene Symbol</b>	PMEPA1
<b>Species</b>	Human, Mouse, Rat
<b>Specificity/Sensitivity</b>	TMEPAI - transmembrane, prostate androgen induced RNA
<b>Immunogen</b>	TMEPAI (AAH15918, 181 a.a. ~ 280 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. NRTIFDSDLMD SARLGGPCPPSSNSGISATCYGSGGRMEGPPPTYSEVIGHYP GSSFQHQSSGPPSLLEGTRLHHTHIAPLESAAIWSKEKDKQKGHPL
<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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Antibody reactive against recombinant protein with GST tag on ELISA and Western Blot. GST tag alone is used as a negative control.

**Images**

ELISA: TMEPAI Antibody (2A12) [H00056937-M01] - Detection limit for recombinant GST tagged TMEPAI is approximately 1ng/ml as a capture antibody.



## Publications

Singha P, Pandeswara S, Geng H et al. Increased Smad3 and reduced Smad2 levels mediate the functional switch of TGF- $\beta$  from growth suppressor to growth and metastasis promoter through TMEPAI/PMEPA1 in triple negative breast cancer. *Genes Cancer*. 2019-06-27 [PMID: 31798766]

Oh S, Shin S, Song H et al. Relationship between ETS Transcription Factor ETV1 and TGF- $\beta$ -regulated SMAD Proteins in Prostate Cancer. *Sci Rep*. 2019-06-03 [PMID: 31160676]

Sharad S, Sztupinszki Z, Chen Y et al. Analysis of PMEPA1 Isoforms (a and b) as Selective Inhibitors of Androgen and TGF- $\beta$  Signaling Reveals Distinct Biological and Prognostic Features in Prostate Cancer. *Cancers (Basel)*. 2019-12-12 [PMID: 31842254]

Kumar P, Sharad S, Petrovics G et al. Loss of miR-449a in ERG-associated prostate cancer promotes the invasive phenotype by inducing SIRT1. *Oncotarget* 2016-04-19 [PMID: 26988912] (WB)

Li H, Mohamed AA, Sharad S et al. Silencing of PMEPA1 accelerates the growth of prostate cancer cells through AR, NEDD4 and PTEN. *Oncotarget* 2015-06-20 [PMID: 25883222] (WB)

Costea DE, Hills A, Osman AH et al. Identification of two distinct carcinoma-associated fibroblast subtypes with differential tumor-promoting abilities in oral squamous cell carcinoma. *Cancer Res*. 2013-04-18 [PMID: 23598279]

Hu Y, He K, Wang D et al. TMEPAI regulates EMT in lung cancer cells by modulating the ROS and IRS-1 signaling pathways. *Carcinogenesis*. 2013-04-24 [PMID: 23615405]

O Hainmhire E, Quartuccio SM, Cheng W et al. Mutation or Loss of p53 Differentially Modifies TGF $\beta$  Action in Ovarian Cancer *PLoS One*. 2014-02-20 [PMID: 24586866]

Singha PK, Pandeswara S, Geng H et al. TGF- $\beta$  induced TMEPAI/PMEPA1 inhibits canonical Smad signaling through R-Smad sequestration and promotes non-canonical PI3K/Akt signaling by reducing PTEN in triple negative breast cancer. *Genes Cancer*. 2014-09-01 [PMID: 25352949]

Singha PK, Yeh IT, Venkatachalam MA et al. Transforming Growth Factor- $\beta$  (TGF- $\beta$ )-Inducible Gene TMEPAI Converts TGF- $\beta$  from a Tumor Suppressor to a Tumor Promoter in Breast Cancer. *Cancer Res*. 2010-07-07 [PMID: 20610632]

Watanabe Y, Itoh S, Goto T et al. TMEPAI, a transmembrane TGF- $\beta$ -inducible protein, sequesters Smad proteins from active participation in TGF- $\beta$  signaling. *Mol Cell* 37(1):123-34. 2010-01-15 [PMID: 20129061]

Li H, Xu LL, Masuda K et al. A feedback loop between the rogen receptor a NEDD4 binding protein, PMEPA1 in prostate cancer cells. *J Biol Chem*;283(43):28988-95. 2008-10-24 [PMID: 18703514]

More publications at <http://www.novusbio.com/H00056937-M01>





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00056937-M01**

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)
H00056937-Q01-10ug	Recombinant Human TMEPAI GST (N-Term) Protein

### **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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