

**PMEPA1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51431****Specification**

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**PMEPA1 Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">O969W9</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32 KDa

**PMEPA1 Antibody - Additional Information****Gene ID** 56937**Other Names**

Protein TMEPAI, Prostate transmembrane protein androgen induced 1, Solid tumor-associated 1 protein, Transmembrane prostate androgen-induced protein, PMEPA1, STAG1, TMEPAI

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**PMEPA1 Antibody - Protein Information****Name** PMEPA1**Synonyms** STAG1, TMEPAI**Function**

Functions as a negative regulator of TGF-beta signaling and thereby probably plays a role in cell proliferation, differentiation, apoptosis, motility, extracellular matrix production and immunosuppression. In the canonical TGF-beta pathway, ZFYVE9/SARA recruits the intracellular signal transducer and transcriptional modulators SMAD2 and SMAD3 to the TGF-beta receptor. Phosphorylated by the receptor, SMAD2 and SMAD3 then form a heteromeric complex with SMAD4 that translocates to the nucleus to regulate transcription. Through interaction with SMAD2 and SMAD3, LDLRAD4 may compete with ZFYVE9 and SMAD4 and prevent propagation of the intracellular signal (PubMed: [20129061](http://www.uniprot.org/citations/20129061), PubMed: [24627487](http://www.uniprot.org/citations/24627487)). Also involved in down-regulation of the androgen receptor (AR), enhancing ubiquitination and proteasome-mediated degradation of AR, probably by recruiting NEDD4 (PubMed: [18703514](http://www.uniprot.org/citations/18703514)).

**Cellular Location**

Early endosome membrane; Single-pass membrane protein. Golgi apparatus membrane; Single-pass membrane protein

**Tissue Location**

Highest expression in prostate. Also expressed in ovary

**PMEPA1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PMEPA1 Antibody - Images****PMEPA1 Antibody - Background**

Involved in down-regulation of the androgen receptor (AR). Enhances ubiquitination and proteasome-mediated degradation of AR, probably by recruiting NEDD4.

**PMEPA1 Antibody - References**

Xu L.L.,et al.Genomics 66:257-263(2000).  
Rae F.K.,et al.Mol. Carcinog. 32:44-53(2001).  
Brunschwig E.B.,et al.Cancer Res. 63:1568-1575(2003).  
Deloukas P.,et al.Nature 414:865-871(2001).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.