

TSG6 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51571**Specification**

TSG6 Antibody - Product Information

Application	WB, IP, IHC-P, E
Primary Accession	P98066
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35 KDa

TSG6 Antibody - Additional Information**Gene ID** 7130**Other Names**

Tumor necrosis factor-inducible gene 6 protein, Hyaluronate-binding protein, TNF-stimulated gene 6 protein, TSG-6, Tumor necrosis factor alpha-induced protein 6, TNF alpha-induced protein 6, TNFAIP6, TSG6

Dilution

WB~~1:1000

IP~~N/A

IHC-P~~N/A

E~~N/A

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

TSG6 Antibody - Protein Information**Name** TNFAIP6**Synonyms** TSG6**Function**

Major regulator of extracellular matrix organization during tissue remodeling (PubMed: [15917224](http://www.uniprot.org/citations/15917224), PubMed: [18042364](http://www.uniprot.org/citations/18042364), PubMed: [26823460](http://www.uniprot.org/citations/26823460)). Catalyzes the transfer of a heavy chain (HC) from inter-alpha-inhibitor (I-alpha-I) complex to hyaluronan. Cleaves the ester bond between the C-terminus of the HC and GalNAc residue of the chondroitin sulfate chain in I-alpha-I complex followed by transesterification of the HC to hyaluronan. In the

process, potentiates the antiprotease function of I- α -I complex through release of free bikunin (PubMed:15917224, PubMed:16873769, PubMed:20463016). Acts as a catalyst in the formation of hyaluronan-HC oligomers and hyaluronan-rich matrix surrounding the cumulus cell-oocyte complex, a necessary step for oocyte fertilization (PubMed:26468290). Assembles hyaluronan in pericellular matrices that serve as platforms for receptor clustering and signaling. Enables binding of hyaluronan deposited on the surface of macrophages to LYVE1 on lymphatic endothelium and facilitates macrophage extravasation. Alters hyaluronan binding to functionally latent CD44 on vascular endothelium, switching CD44 into an active state that supports leukocyte rolling (PubMed:15060082, PubMed:26823460). Modulates the interaction of chemokines with extracellular matrix components and proteoglycans on endothelial cell surface, likely preventing chemokine gradient formation (PubMed:27044744). In a negative feedback mechanism, may limit excessive neutrophil recruitment at inflammatory sites by antagonizing the association of CXCL8 with glycosaminoglycans on vascular endothelium (PubMed:24501198). Has a role in osteogenesis and bone remodeling. Inhibits BMP2-dependent differentiation of mesenchymal stem cell to osteoblasts (PubMed:16771708, PubMed:18586671). Protects against bone erosion during inflammation by inhibiting TNFSF11/RANKL- dependent osteoclast activation (PubMed:18586671).

Cellular Location

Secreted.

Tissue Location

Expressed in airway epithelium and submucosal gland (at protein level). Colocalizes with bikunin at the ciliary border Present in bronchoalveolar lavage fluid (at protein level) (PubMed:16873769). Expressed in mesenchymal stem cells (PubMed:16771708). Found in the synovial fluid of patients with rheumatoid arthritis.

TSG6 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](#)

TSG6 Antibody - Images

TSG6 Antibody - Background

Possibly involved in cell-cell and cell-matrix interactions during inflammation and tumorigenesis.

TSG6 Antibody - References

Lee T.H.,et al.J. Cell Biol. 116:545-557(1992).
Nentwich H.A.,et al.J. Biol. Chem. 277:15354-15362(2002).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Wisniewski H.-G.,et al.Biochemistry 33:7423-7429(1994).