

Rabbit TSG6 Polyclonal Antibody | anti-TSG6 antibody

Anti-TSG6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA291059	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TSG6; Polyclonal Antibody; Anti-TSG6 Antibody; 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; anti-TSG6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of TSG6 protein
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Applicable Applications for anti-TSG6 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Function	Major regulator of extracellular matrix organization during tissue remodeling (PubMed:18042364, PubMed:26823460, PubMed:15917224). 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- alpha-I complex through release of free bikunin (PubMed: , PubMed: , PubMed:). 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: , PubMed:). Modulates the interaction of chemokines with extracellular matrix components and proteoglycans on endothelial cell surface, likely preventing chemokine gradient formation (PubMed:). 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: , PubMed:). 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.
Preparation and Storage	Store at -20°C. Stable for 12 months from date of service.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of TSG6 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



WB (Western Blot)
Western blot analysis of TSG6 expression in HEK293T (A), mouse kidney (B), rat kidney (C), PC3 (D) whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-TSG6 antibody	Rabbit polyclonal antibody to TSG6
--	------------------------------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	26051243
NCBI GeneID	7130
NCBI Accession #	NP_009046.2
NCBI GenBank Nucleotide #	NM_007115.3
UniProt Accession #	P98066; Q53TI7; Q8WWI9
NCBI Official Full Name	tumor necrosis factor-inducible gene 6 protein
NCBI Official Synonym Full Names	TNF alpha induced protein 6
NCBI Official Symbol	TNFAIP6
NCBI Official Synonym Symbols	TSG6; TSG-6
NCBI Protein Information	tumor necrosis factor-inducible gene 6 protein
UniProt Protein Name	Tumor necrosis factor-inducible gene 6 protein
UniProt Gene Name	TNFAIP6
UniProt Synonym Gene Names	TSG6; TSG-6; TNF alpha-induced protein 6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.