

Rabbit TACSTD1 Polyclonal Antibody | anti-TACSTD1 antibody

TACSTD1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326090	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TACSTD1; Polyclonal Antibody; TACSTD1 Antibody; 17 1A; 323/A3; Adenocarcinoma associated antigen; Adenocarcinoma-associated antigen; Antigen identified by monoclonal antibody AUA1; AUA1; CD326; CD326 antigen; Cell surface glycoprotein Trop 1; Cell surface glycoprotein Trop 2; Cell surface glycoprotein Trop-1; CO 17A; CO17 1A; CO17A; DIAR5; EGP 2; EGP; EGP2; EGP314; EGP40; Ep CAM; Ep-CAM; EPCAM; EPCAM_HUMAN; EpCAM1; Epithelial cell adhesion molecule; Epithelial Cell Adhesion Molecule Intracellular Domain (EpCAM-ICD); Epithelial cell surface antigen; Epithelial cellular adhesion molecule; Epithelial glycoprotein 1; Epithelial glycoprotein 314; Epithelial glycoprotein; ESA; GA733 1; GA733 2; GA733-2; gastrointestinal tumor-associated antigen 2; 35-KD glycoprotein; gp4; hEGP 2; hEGP314; HNPCC8; Human epithelial glycoprotein 2; KS 1/4 antigen; KS1/4; KSA; Ly74; Lymphocyte antigen 74; M1S 1; M1S2; M4S1; Major gastrointestinal tumor associated protein GA733 2; Major gastrointestinal tumor-associated protein GA733-2; mEGP314; Membrane component chromosome 4 surface marker (35kD glycoprotein); Membrane component; chromosome 4; surface marker 1; surface marker; MIC18; MK 1; Protein 289A; TACD1; TROP1; Tumor associated calcium signal transducer 1; Tumor associated calcium signal transducer 2 precursor; Tumor-associated calcium signal transducer 1; anti-TACSTD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TACSTD1 antibody detects endogenous levels of total TACSTD1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	314
Applicable Applications for anti-TACSTD1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TACSTD1
Subcellular Location	Lateral Cell Membrane. Cell Junction > Tight Junction. Co-localizes with CLDN7 at the lateral cell membrane and tight junction.
Tissue Specificity	Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC). Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326090 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Hepg2 whole cell lysates, using TACSTD1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326090 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from various samples, using TACSTD1 Antibody. Lane 1: Hela treated with blocking peptide; Lane 2: Hela; Lane 3: 293;

ADDITIONAL INFORMATION

Related Product Information for anti-TACSTD1 antibody

Description: Epithelial cell adhesion and activating molecule (EpCAM/CD326) is a transmembrane glycoprotein that mediates Ca2+-independent, homophilic adhesions on the basolateral surface of most epithelial cells. EpCAM is not expressed in adult squamous epithelium, but it is highly expressed in adeno and squamous cell carcinomas (1). Research studies identified EpCAM as one of the first tumor-associated antigens, and it has long been a marker of epithelial and tumor tissue. Investigators have shown that EpCAM is highly expressed in cancer cells (reviewed in 2, 3).

Function: May act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E.

Subunit Structure: Monomer. Interacts with phosphorylated CLDN7.

Post-translational Modifications: Hyperglycosylated in carcinoma tissue as compared with autologous normal epithelia. Glycosylation at Asn-198 is crucial for protein stability.

Similarity: Belongs to the EPCAM family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	218505670
NCBI GeneID	4072
NCBI Accession #	NP_002345.2
NCBI GenBank Nucleotide #	NM_002354.2
UniProt Accession #	P16422; P18180; Q6FG26; Q6FG49; Q96C47; Q9UCD0
Molecular Weight	Observed: 35 kDa Predicted: 35 kDa
NCBI Official Full Name	epithelial cell adhesion molecule
NCBI Official Synonym Full Names	epithelial cell adhesion molecule
NCBI Official Symbol	EPCAM
NCBI Official Synonym Symbols	ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; EGP314; HNPCC8; TACSTD1
NCBI Protein Information	epithelial cell adhesion molecule

UniProt Protein Name	Epithelial cell adhesion molecule
UniProt Gene Name	EPCAM
UniProt Synonym Gene Names	GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; Ep-CAM; EGP; EGP314; hEGP314

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tacstd1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326090>