

Rabbit anti-Human SGT1/ECD Polyclonal Antibody | anti-ECD antibody

Anti-SGT1/ECD Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126041	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SGT1/ECD; Polyclonal Antibody; Anti-SGT1/ECD Antibody Picoband; anti-ECD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ECD antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human SGT1/ECD recombinant protein (Position: L50-Q567).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-SGT1/ECD antibody (AAA126041). Overlay histogram showing HeLa cells stained with AAA126041 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SGT1/ECD Antibody (AAA126041, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of SGT1/ECD using anti-SGT1/ECD antibody (AAA126041). SGT1/ECD was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-SGT1/ECD Antibody (AAA126041) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of SGT1/ECD using anti-SGT1/ECD antibody (AAA126041). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human PC-3 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human HL-60 whole cell lysates, Lane 4: human U2OS whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SGT1/ECD antigen affinity purified polyclonal antibody (#AAA126041) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SGT1/ECD at approximately 80 kDa. The expected band size for SGT1/ECD is at 80 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ECD antibody	Protein SGT1 is a protein that in humans is encoded by the ECD gene. Regulator of p53/TP53 stability and function. Inhibits MDM2-mediated degradation of p53/TP53 possibly by cooperating in part with TXNIP. May be involved transcriptional regulation. In vitro has intrinsic transactivation activity enhanced by EP300. May be a transcriptional activator required for the expression of glycolytic genes. Involved in regulation of cell cycle progression. Proposed to disrupt Rb-E2F binding leading to transcriptional activation of E2F proteins. The cell cycle -regulating function may depend on its RUVBL1-mediated association with the R2TP complex. May play a role in regulation of pre-mRNA splicing.
Product Categories/Family for anti-ECD antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	17368102
NCBI GeneID	11319
UniProt Accession #	O95905; C9JX46; E9PAW8
Molecular Weight	644
NCBI Official Full Name	Protein SGT1
NCBI Official Synonym Full Names	ecdysoneless homolog (Drosophila)
NCBI Official Symbol	ECD
NCBI Official Synonym Symbols	GCR2; HSGT1
NCBI Protein Information	protein SGT1; suppressor of GCR2; protein ecdysoneless homolog; suppressor of S. cerevisiae gcr2
UniProt Protein Name	Protein SGT1
UniProt Gene Name	ECD
UniProt Synonym Gene Names	SGT1; hSGT1
UniProt Entry Name	SGT1_HUMAN

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.