

Rabbit anti-Human STIM1 Polyclonal Antibody | anti-STIM1 antibody

Anti-STIM1 Antibody, Rabbit Polyclonal

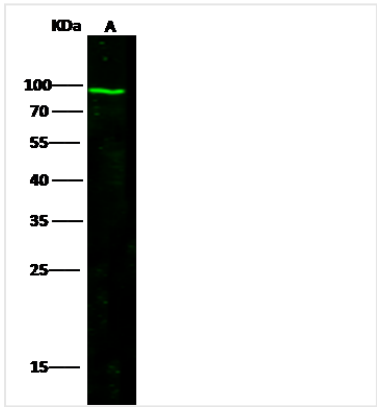
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255417	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

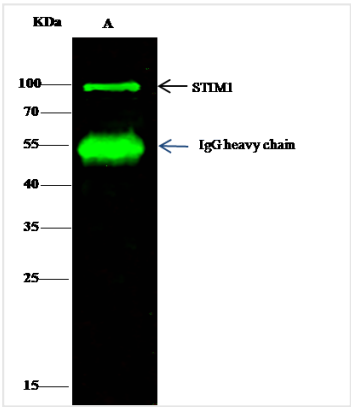
STIM1; Polyclonal Antibody; Anti-STIM1 Antibody; Rabbit Polyclonal; STIM1/GOK Antibody; Rabbit PAb; Antigen Affinity Purified; stromal interaction molecule 1; Anti-D11S4896E Antibody; Anti-GOK Antibody; Anti-IMD10 Antibody; Anti-STRMK Antibody; Anti-TAM Antibody; Anti-TAM1 Antibody; anti-STIM1 antibody

PRODUCT SPECIFICATIONS

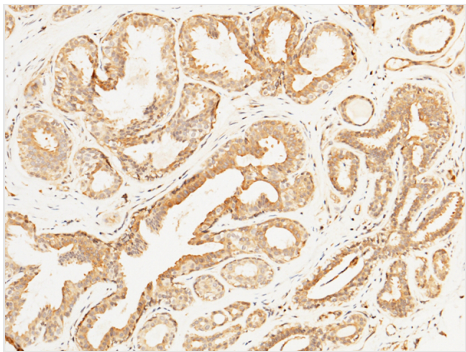
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human STIM1/GOK
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-STIM1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human STIM1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human STIM1 (rh STIM1). STIM1 specific IgG was purified by human STIM1 affinity chromatography .
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



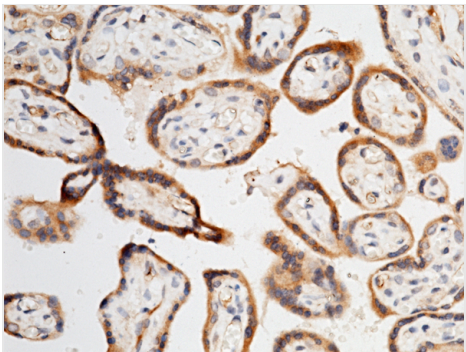
WB (Western Blot)
Anti-STIM1 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Membrane Lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 77 kDa Observed band size: 94 kDa



IP (Immunoprecipitation)
STIM1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 0.5 uL anti-STIM1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-STIM1 rabbit polyclonal antibody, at 1:500 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 77 kDa Observed band size: 94 kDa



IHC (Immunohiostchemistry)
Immunochemical staining of human STIM1 in human breast carcinoma with rabbit polyclonal antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human STIM1 in human placenta with rabbit polyclonal antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-STIM1 antibody	Stromal interaction molecule 1, also known as STIM1 and GOK, is a cell membrane, a single-pass type I membrane protein and a endoplasmic reticulum membrane protein. STIM1/GOK is ubiquitously expressed in various human primary cells and tumor cell lines. It contains one EF-hand domain and one SAM (sterile alpha motif) domain. STIM1/GOK plays a role in mediating Ca2+ influx following depletion of intracellular Ca2+ stores. It acts as Ca2+ sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca2+ depletion, STIM1/GOK translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca2+ release-activated Ca2+ (CRAC) channel subunit, TMEM142A/ORAI1. Transfection of STIM1/GOK into cells derived from a rhabdoid tumor and from a rhabdomyosarcoma that do not express detectable levels of STIM1 can induce cell death, suggesting a possible role in the control of rhabdomyosarcomas and rhabdoid tumors. Defects in STIM1 are the cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 2 (IDTICED2) which is an immune disorder characterized by recurrent infections, impaired T-cell activation and proliferative response, decreased T-cell production of cytokines, lymphadenopathy, and normal lymphocytes counts and serum immunoglobulin levels.
References	Sabbioni S. et al., 1997, Cancer Res. 57: 4493-7. Manji S.S. et al., 2000, Biochim. Biophys. Acta 1481: 147-55. Williams R.T. et al., 2002, Biochim. Biophys. Acta. 1596: 131-7. Spassova M.A. et al., 2006, Proc. Natl. Acad. Sci. USA. 103: 4040-5. Parvez S. et al., 2008, FASEB J. 22: 752-61.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21070997
NCBI GeneID	6786

UniProt Accession #	Q13586; Q8N382
NCBI Official Full Name	stromal interaction molecule 1 [Homo sapiens]
NCBI Official Synonym Full Names	stromal interaction molecule 1
NCBI Official Symbol	STIM1
NCBI Official Synonym Symbols	GOK; D11S4896E; STIM1
UniProt Protein Name	Stromal interaction molecule 1
UniProt Gene Name	STIM1
UniProt Synonym Gene Names	GOK
UniProt Entry Name	STIM1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stim1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255417>