

Mouse Complement C1s Monoclonal Antibody | anti-C1S antibody

Anti-Complement C1s Antibody (clone 4D9)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA162300	Mouse	Human, Monkey, Mouse, Rat, Dog	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Complement C1s; Monoclonal Antibody; Anti-Complement C1s Antibody (clone 4D9); Goat Polyclonal (IgG) to Human Complement C1s; C1S; C1 esterase; ComplementC1S; Complement 1s; Complement C1s subcomponent; anti-C1S antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Mouse, Rat, Dog
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4D9
Specificity	Human ComplementC1S
Purity/Purification	Protein A/G purified
Form/Format	PBS, pH 7.3, 0.02% Sodium Azide, 50% Glycerol, 1% BSA
Concentration	0.56 mg/mL (varies by lot)
Sequence Length	688
Applicable Applications for anti-C1S antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Full length human Recombinant protein of human C1S(NP_001725) produced in HEK293T cell.
Immunogen Species	Compliment C1s antibody was produced against Human
Immunogen Type	Recombinant protein
Target	Complement C1s
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:

Tissue Preparation:
Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:
Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:
Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:
Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT
Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT
Wash slides in 1 change of 80% alcohol - 3 minutes @ RT
Rinse slides in gentle running distilled water - 5 minutes @ RT

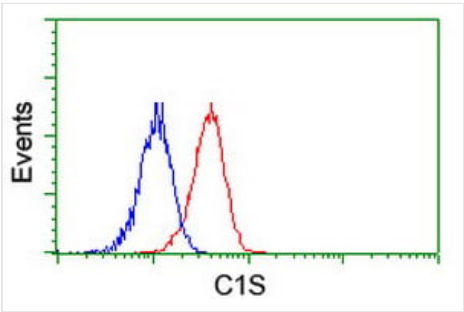
Antigen retrieval:
Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes
Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

Immunostaining:
(Do not allow tissues to dry at any time during the staining procedure)
Apply a universal protein block - 20 minutes @ RT
Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT
Rinse slides in 1 X TBST - 1 minute @ RT
Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase streptavidin - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT
Wash slides in distilled water - 1 minute @ RT

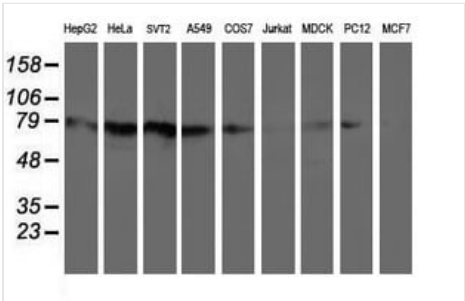
Dehydrate:
(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)
Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT
Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT
Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT
Wash slides in 3 changes of xylene - 1 minute each @ RT
Apply coverslip

Preparation and Storage
Store at -20°C.
Avoid freeze-thaw cycles.

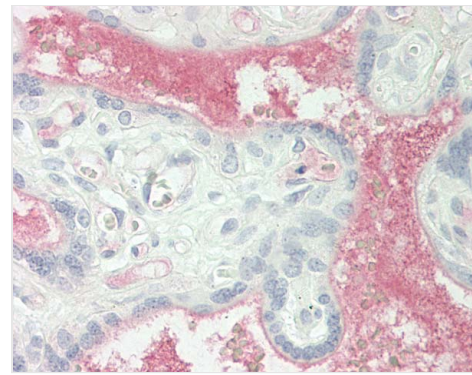
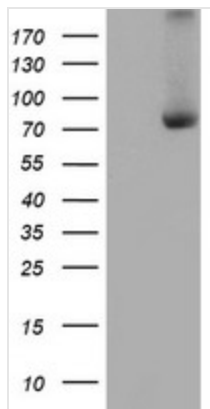
IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometry of Jurkat cells, using anti-C1S antibody (Red), compared to a nonspecific negative control antibody (Blue).



WB (Western Blot)
Western blot of extracts (35 ug) from 9 different cell lines by using anti-C1S monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



IHC (Immunohistochemistry)

Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)

WB (Western Blot)

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY C1S (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C1S.

ADDITIONAL INFORMATION

Related Product Information for anti-C1S antibody	C1s B chain is a serine protease that combines with C1q and C1r to form C1, the first component of the classical pathway of the complement system. C1r activates C1s so that it can, in turn, activate C2 and C4.
Product Categories/Family for anti-C1S antibody	Protease ; Serine S1

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502495
NCBI GeneID	716
NCBI Accession #	NP_001725.1
NCBI GenBank Nucleotide #	NM_001734.4
UniProt Accession #	P09871; Q9UCU7; Q9UCU8; Q9UCU9; Q9UCV0; Q9UCV1; Q9UCV2; Q9UCV3; Q9UCV4; Q9UCV5; Q9UM14; D3DUT4
NCBI Official Full Name	complement C1s subcomponent isoform 1 preproprotein
NCBI Official Synonym Full Names	complement C1s
NCBI Official Symbol	C1S
NCBI Official Synonym Symbols	EDSPD2
NCBI Protein Information	complement C1s subcomponent
UniProt Protein Name	Complement C1s subcomponent
UniProt Gene Name	C1S

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/monoclonal/complement-c1s-antibody-clone-4d9-western-blot-immunohistochemistry-flow-cytometry-elisa/162300>