

Rabbit anti-Human Citrate Synthase Polyclonal Antibody | anti-CS antibody

Anti-Citrate Synthase Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255718	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

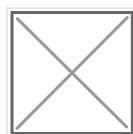
PRODUCT SYNONYMS

Citrate Synthase; Polyclonal Antibody; Anti-Citrate Synthase Antibody; Rabbit Polyclonal; citrate synthase/CS Antibody; Rabbit PAb; Antigen Affinity Purified; citrate synthase; anti-CS antibody

PRODUCT SPECIFICATIONS

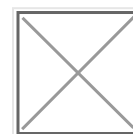
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human citrate synthase/CS
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CS antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Human citrate synthase/CS Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human citrate synthase/CS (rh citrate synthase/CS). citrate synthase/CS specific IgG was purified by Human citrate synthase/CS 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.

IMAGES



IP (Immunoprecipitation)

CS was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate Lane B: 0.5 mg 293T Whole Cell Lysate Lane C: 0.5 mg Caco-2 Whole Cell Lysate 4 uL anti-CS rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-CS rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 44 kDa Observed band size: 44 kDa



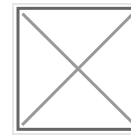
IF (Immunofluorescence)

Immunofluorescence staining of CS in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human CS polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



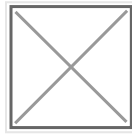
IHC (Immunohistochemistry)

Immunochemical staining of human CS in human skeletal muscle with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human CS in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



WB (Western Blot)

Anti-CS rabbit polyclonal antibody at 1:500 dilution
Lane A: A375 Whole Cell Lysate
Lane B: HepG2 Whole Cell Lysate
Lane C: Caco-2 Whole Cell Lysate
Lane D: HeLa Whole Cell Lysate
Lysates/proteins at 30 ug per lane.
Secondary: Goat Anti- Rabbit IgG H&L (Dylight 800) at 1/10000 dilution.
Developed using the Odyssey technique.
Performed under reducing conditions.
Predicted band size: 51 kDa
Observed band size: 45 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CS antibody

Chondroitin sulphate (CS) glycosaminoglycan chains on cell and extracellular matrix proteoglycans (PGs) can no longer be regarded as merely hydrodynamic space fillers. Overwhelming evidence over recent years indicates that sulphation motif sequences within the CS chain structure are a source of significant biological information to cells and their surrounding environment. CS sulphation motifs have been shown to interact with a wide variety of bioactive molecules, e.g. cytokines, growth factors, chemokines, morphogenetic proteins, enzymes and enzyme inhibitors, as well as structural components within the extracellular milieu. They are therefore capable of modulating a panoply of signalling pathways, thus controlling diverse cellular behaviours including proliferation, differentiation, migration and matrix synthesis. Chondroitin sulfate (CS) is a sulfated glycosaminoglycan composed of a long chain of repeating disaccharide units that are attached to core proteins, resulting in CS proteoglycans (CSPGs). In the mature brain, CS is concentrated in perineuronal nets (PNNs), which are extracellular structures that surround synapses and regulate synaptic plasticity. In addition, CS is rapidly synthesized after CNS injury to create a physical and chemical barrier that inhibits axon growth.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38327625
NCBI GeneID	1431
NCBI Accession #	NP_004068.2
NCBI GenBank Nucleotide #	NM_004077.2
UniProt Accession #	O75390 ; Q71UT9 ; Q7KZH0 ; Q96FZ8 ; Q9BWN8
Molecular Weight	51,712 Da
NCBI Official Full Name	citrate synthase, mitochondrial
NCBI Official Synonym Full Names	citrate synthase
NCBI Official Symbol	CS
NCBI Protein Information	citrate synthase, mitochondrial
UniProt Protein Name	Citrate synthase, mitochondrial
UniProt Gene Name	CS
UniProt Entry Name	CISY_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/citrate-synthase-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/255718>