

Rabbit CCS Polyclonal Antibody | anti-CCS antibody

Anti-CCS Antibody

CATALOG # AAA46716	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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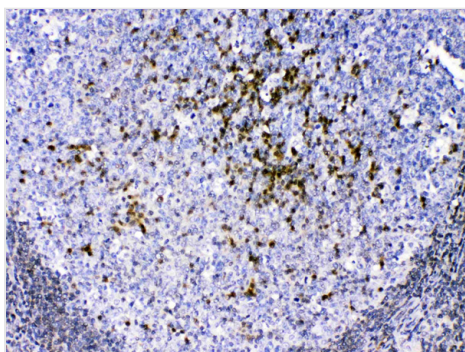
PRODUCT SYNONYMS

CCS; Polyclonal Antibody; Anti-CCS Antibody; SOD 4; SOD4; O14618; Copper chaperone for superoxide dismutase; anti-CCS antibody

PRODUCT SPECIFICATIONS

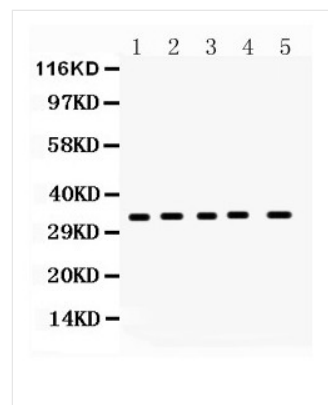
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	274
Applicable Applications for anti-CCS antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CCS (174-209aa DADGRAIFRMEDEQLKVWDVIGRSLIIDEGEDDLGR), different from the related mouse sequence by six amino acids, and from the related rat sequence by seven amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

CCS was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti-CCS Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of CCS expression in rat brain extract (lane 1), rat spleen extract (lane 2), mouse brain extract (lane 3), mouse spleen extract (lane 4) and 293T whole cell lysates (lane 5). CCS at 34KD was detected using rabbit anti-CCS Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CCS antibody	Rabbit IgG polyclonal antibody for Copper chaperone for superoxide dismutase(CCS) detection. Background: Copper chaperone for superoxide dismutase is a metalloprotein that is responsible for the delivery of Cu to superoxide dismutase (SOD1). In humans the protein is encoded by the CCS gene. And this gene is mapped to chromosome 11q13 by fluorescence in situ hybridization. The CCS protein is present in mammals and most eukaryotes including yeast. The structure of CCS is composed of three distinct domains that are necessary for its function. Although CCS is important for many organisms, there are CCS independent pathways for SOD1, and many species lack CCS all together, such as <i>C. elegans</i> .
References	1. Bartnikas, T. B., Waggoner, D. J., Casareno, R. L. B., Gaedigk, R., White, R. A., Gitlin, J. D. Chromosomal localization of CCS, the copper chaperone for Cu/Zn superoxide dismutase. <i>Mammalian Genome</i> 11: 409-411, 2000. 2. Casareno, R. L. B., Waggoner, D., Gitlin, J. D. The copper chaperone CCS directly interacts with copper/zinc superoxide dismutase. <i>J. Biol. Chem.</i> 273: 23625-23628, 1998. 3. Huppke, P., Brendel, C., Korenke, G. C., Marquardt, I., Donsante, A., Yi, L., Hicks, J. D., Steinbach, P. J., Wilson, C., Elpeleg, O., Moller, L. B., Christodoulou, J., Kaler, S. G., Gartner, J. Molecular and biochemical characterization of a unique mutation in CCS, the human copper chaperone to superoxide dismutase. <i>Hum. Mutat.</i> 33: 1207-1215, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826665
NCBI GeneID	9973
NCBI Accession #	NP_005116.1
NCBI GenBank Nucleotide #	NM_005125.1
UniProt Accession #	O14618; Q2M366; Q8NEV0
NCBI Official Full Name	copper chaperone for superoxide dismutase
NCBI Official Synonym Full Names	copper chaperone for superoxide dismutase
NCBI Official Symbol	CCS
NCBI Protein Information	copper chaperone for superoxide dismutase
UniProt Protein Name	Copper chaperone for superoxide dismutase
UniProt Gene Name	CCS

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/ccs-antibody-immunohistochemistry-western-blot-elisa/46716>