

Anti-CCS Picoband Antibody

Catalog # ABO10055

Product Information

Application	WB, IHC-P
Primary Accession	O14618
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Copper chaperone for superoxide dismutase(CCS) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9973
Other Names	Copper chaperone for superoxide dismutase, Superoxide dismutase copper chaperone, CCS
Calculated MW	29041
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm .
Tissue Specificity	Ubiquitous.
Source	Eukaryota
Protein Name	Copper chaperone for superoxide dismutase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
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.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage

At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

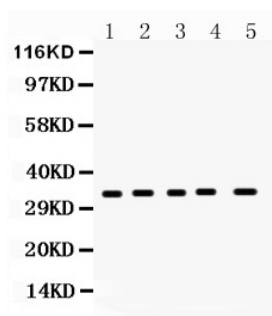
Protein Information

Name	CCS (HGNC:1613)
Function	Delivers copper to copper zinc superoxide dismutase (SOD1).
Cellular Location	Cytoplasm, cytosol.
Tissue Location	Ubiquitous.

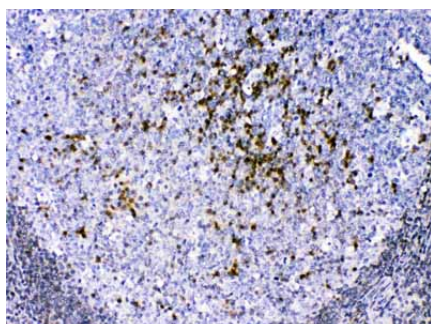
Background

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 *C. elegans*.

Images



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 (Catalog #ABO10055) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



CCS was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- CCS Antigen Affinity purified polyclonal antibody (Catalog # ABO10055) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.