

CBS (Phospho-Tyr484) Antibody

Catalog No: #SAB628

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Description

Product Name	CBS (Phospho-Tyr484) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was purified from rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Applications	WB
Species Reactivity	HM
Specificity	CBS(Phospho-Tyr484) Antibody detects endogenous levels of CBS only when phosphorylated at Tyr484.
Immunogen Description	A synthesized peptide derived from human CBS around the phosphorylation site of Tyr484.
Other Names	Cystathionine beta-synthase; Beta-thionase; Serine sulfhydrase
SDS-PAGE MW	61kDa
Concentration	1 mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western Blot: 1/500 - 1/2000

Background

Hydro-lyase catalyzing the first step of the transsulfuration pathway, where the hydroxyl group of L-serine is displaced by L-homocysteine in a beta-replacement reaction to form L-cystathionine, the precursor of L-cysteine. This catabolic route allows the elimination of L-methionine and the toxic metabolite L-homocysteine (PubMed:23981774, PubMed:20506325, PubMed:23974653). Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons (By similarity).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.