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CCBL1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18519b

Specification

CCBL1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q16773

CCBL1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 883

Other Names
Kynurenine--oxoglutarate transaminase 1, Cysteine-S-conjugate beta-lyase, Glutamine transaminase K, GTK, Glutamine--phenylpyruvate transaminase, Kynurenine aminotransferase I, KATI, Kynurenine--oxoglutarate transaminase I, CCBL1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CCBL1 Antibody (C-term) Blocking Peptide - Protein Information

Name KYAT1 (HGNC:1564)

Synonyms CCBL1

Function
Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA), an intermediate in the tryptophan catabolic pathway which is also a broad spectrum antagonist of the three ionotropic excitatory amino acid receptors among others (PubMed:19338303, PubMed:28097769). Also metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites (PubMed:7883047). Catalyzes the beta-elimination of S-conjugates and Se-conjugates of L-(seleno)cysteine, resulting in the cleavage of the C-S or C-Se bond (PubMed:7883047).

Cellular Location
Cytoplasm, cytosol.

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CCBL1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CCBL1 Antibody (C-term) Blocking Peptide - Images

CCBL1 Antibody (C-term) Blocking Peptide - Background

This gene encodes a cytosolic enzyme that is responsiblefor the metabolism of cysteine conjugates of certain halogenatedalkenes and alkanes. This metabolism can form reactive metabolitesleading to nephrotoxicity and neurotoxicity. Increased levels ofthis enzyme have been linked to schizophrenia. Multiple transcriptvariants that encode different isoforms have been identified forthis gene.

CCBL1 Antibody (C-term) Blocking Peptide - References

Han, Q., et al. J. Med. Chem. 52(9):2786-2793(2009)Cooper, A.J., et al. Arch. Biochem. Biophys. 474(1):72-81(2008)Lamesch, P., et al. Genomics 89(3):307-315(2007)Kapoor, R., et al. Brain Res. 1106(1):205-210(2006)Cooper, A.J., et al. Amino Acids 30(1):1-15(2006)