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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

CBS monoclonal antibody (M01), clone 3E1

Catalog Number: H00000875-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant CBS.

Clone Name: 3E1

Immunogen: CBS (NP_000062, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MPSETPQAEVGP TGCPHRSGPHSAKGSLEKGSPE DK
EAKEPLWIRPDAPSRCTWQLGRPASESPHHHTAPAKS
PKILPDILKKIGDTPMVRINKIGKKFG

Host: Mouse

Interspecies Antigen Sequence: Mouse (61); Rat (63)

Reactivity: Human

Applications: ELISA, IHC-P, IP, RNAi-Ab, S-ELISA, WB-Ce, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 875

Gene Symbol: CBS

Gene Alias: HIP4

Gene Summary: The protein encoded by this gene acts

as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. [provided by RefSeq]

References:

1. Sulfurtransferases and Cystathionine Beta-Synthase Expression in Different Human Leukemia Cell Lines. Halina Jurkowska, Maria Wrobel, Ewa Jasek-Gajda, Leszek Rydz. *Biomolecules*. 2022 Jan 18;12(2):148. doi: 10.3390/biom12020148.
2. Highly recurrent CBS epimutations in gastric cancer CpG island methylator phenotypes and inflammation. Nisha Padmanabhan, Huang Kie Kyon, Arnoud Boot, Kevin Lim, Supriya Srivastava, Shuwen Chen, Zhiyuan Wu, Hyung-O K Lee, Vineeth T Mukundan, Charlene Chan, Yarn Kit Chan, Ong Xuewen, Jason J Pitt, Zul Fazreen Adam Isa, Manjie Xing, Ming Hui Lee, Angie Lay Keng Tan, Shamaine Ho Wei Ting, Micah A Luftig, Dennis Kappei, Warren D Kruger, Jinsong Bian, Ying Swan Ho, Ming Teh, Steve George Rozen, Patrick Tan. *Genome Biol*. 2021 Jun 1;22(1):167. doi: 10.1186/s13059-021-02375-2.
3. Exercise Training Promotes Cardiac Hydrogen Sulfide Biosynthesis and Mitigates Pyroptosis to Prevent High-Fat Diet-Induced Diabetic Cardiomyopathy. Kar S, Shahshahan HR, Hackfort BT, Yadav SK, Yadav R, Kambis TN, Lefer DJ, Mishra PK. *Antioxidants (Basel)*. 2019 Dec 11;8(12). pii: E638. doi: 10.3390/antiox8120638.