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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

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. 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.
2. Shear stress regulates cystathionine γ lyase expression to preserve endothelial redox balance and reduce membrane lipid peroxidation. Bibli SI, Hu J, Leisegang MS, Wittig J, Zukunft S, Kapasakalidi A, Fisslthaler B, Tsilimigras D, Zografos G, Filis K, Brandes RP, Papapetropoulos A, Sigala F, Fleming I. *Redox Biol*. 2020 Jan;28:101379. doi: 10.1016/j.redox.2019.101379. Epub 2019 Nov 13.
3. The gasotransmitter hydrogen sulfide inhibits transepithelial anion secretion of pregnant mouse endometrial epithelium. Xu JW, Gao DD, Peng L, Qiu ZE, Ke LJ, Zhu YX, Zhang YL, Zhou WL. *Nitric Oxide*. 2019 Sep 1;90:37-46. doi: 10.1016/j.niox.2019.05.011. Epub 2019 Jun 5.