9F, No. 108, Jhouzih St.,Taipei, Taiwan
Tel: + 886-2-8751-1888 Fax: + 886-2-6602-1218
E-mail: sales@abnova.com

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:
MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDK
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 (CBSD), which can lead to homocystinuria. [provided by RefSeq]

References:

1. Endogenous Hydrogen Sulfide Enhances Cell Proliferation of Human Gastric Cancer AGS Cells. Sekiguchi F, Sekimoto T, Ogura A, Kawabata A. Biol Pharm Bull. 2016 May 13;39(5):887-90.
2. TLR4 upregulates CBS expression through NF-?B activation in a rat model of irritable bowel syndrome with chronic visceral hypersensitivity. Yuan B, Tang WH, Lu LJ, Zhou Y, Zhu HY, Zhou YL, Zhang HH, Hu CY, Xu GY. World J Gastroenterol. 2015 July 28; 21(28): 8615-8628.
3. Impacts of CD44 knockdown in cancer cells on tumor and host metabolic systems revealed by quantitative imaging mass spectrometry. Ohmura M, Hishiki T, Yamamoto T, Nakanishi T, Kubo A, Tsuchihashi K, Tamada M, Toue S, Kabe Y, Saya H, Suematsu M. Nitric Oxide(2014), doi:10.1016/ j.niox.2014.11.005