# Cystathionine β-Synthase Antibody

**CATALOG NO:** A1112-30T 30 µg (Trial size)
A1112-100 100 µg

**ALTERNATIVE NAMES:** Beta-thionase, Serine sulfhydrase, Cystathionine beta-synthase

**CONCENTRATION:** 0.5 mg/ml

**IMMUNOGEN:** Recombinant human CBS (Cat. No. 7844)

**INTERNAL ID:** BV-Q26

**MOLECULAR WEIGHT:** 63 kDa

**HOST/ISOTYPE:** Rabbit IgG

**SPECIES REACTIVITY:** Human

**PURIFICATION:** Affinity purified rabbit IgG

**FORM:** Liquid

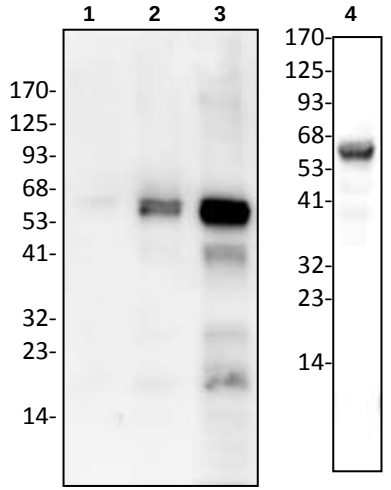
**FORMULATION:** 0.5 mg/ml of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin® and 50 % glycerol

**STORAGE CONDITIONS:** Store at -20°C. Avoid repeated freeze/thaw cycles.

**DESCRIPTION:** Cystathionine β-synthase (CBS; E.C. 4.2.1.22) is a PLP-dependent enzyme which plays a central role in sulfur amino acid metabolism in eukaryotes. CBS catalyzes condensation between serine and homocysteine to generate cystathionine, which is then further processed by cystathionine γ-lyase to yield cysteine. The gene encoding CBS is essentially linked to the genetic disorders of homocystinuria and Down syndrome. Homocystinuria is an autosomal recessive disease, characterized by high plasma levels of homocysteine, with clinical manifestations including mental retardation, thromboembolism and connective tissue defects. In addition, CBS also mediates synthesis of hydrogen sulfide by catalyzing condensation between cysteine and homocysteine. CBS is highly expressed in the nervous system, liver and kidney and is responsible for up to 95% of the H2S production in the brain.

**APPLICATION:** Western blot: 1-4 µg

**Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.**




**Western blot analysis of CBS using anti-CBS antibody:**

Lane 1: rh-CBS 2 ng
Lane 2: rh-CBS 10 ng
Lane 3: rh-CBS 50 ng
Lane 4: Hela cell lysate

**RELATED PRODUCTS:**

- CBS Antibody (Center) **(Cat. No. 6728-100)**
- CBS Antibody (NT) **(Cat. No. 6729-100)**
- Cystathionine β Synthase, human recombinant **(Cat. No. 7844-100)**

***FOR RESEARCH USE ONLY! Not to be used on humans.***