# Anti-ABAT Antibody (Clone#22A05)

**Catalog Number: *M07133-2***

BOSTER®
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-ABAT Antibody (Clone#22A05) |
| **Gene Name** | ABAT |
| **Source** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, IP |
| **Contents** | 500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol. |
| **Immunogen** | A synthesized peptide derived from human ABAT |
| **Concentration** | 500 ug/ml |
| **Purification** | Affinity-chromatography |
| **Observed MW** | 54 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC):1:50-200<br>ImmunoPrecipitation (IP): 1:50 |

## Storage

12 months from date of receipt，-20℃ as supplied.

## Background Information

4-Aminobutyrate aminotransferase is a protein that in humans is encoded by the ABAT gene. ABAT is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of humans ynapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractoryseizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene.

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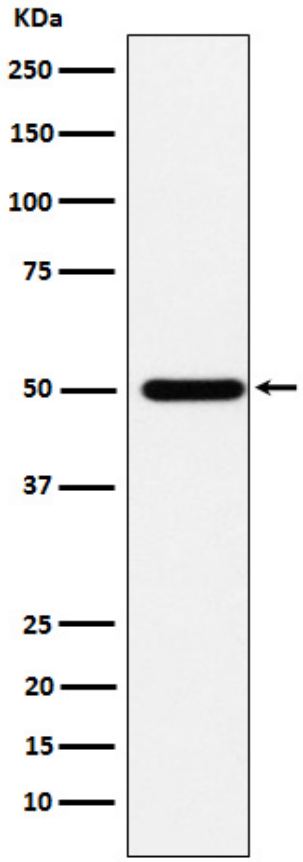
## Selected Validation Data




Western blot analysis of ABAT expression in HepG2 cell lysate.