**Product datasheet**

**Anti-Homocysteine antibody ab6482**

1 References

### Overview

**Product name**  
Anti-Homocysteine antibody

**Description**  
Rabbit polyclonal to Homocysteine

**Host species**  
Rabbit

**Specificity**  
Using conjugated Homocysteine-Gluteraldehyde-Protein, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

- Compound: Cross-reactivity ratio
  - Cysteine-G-BSA: 1/423
  - Homocysteic acid-G-BSA: 1/>100000
  - Homocysteine-G-BSA concentration/unconjugated or conjugated amino acids concentration at half displacement

G = Glutaraldehyde, BSA = Bovine Serum Albumin

**Tested applications**  
Suitable for: ELISA

**Immunogen**  
Chemical/ Small Molecule by a Glutaraldehyde linker.

### Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity**  
Ammonium Sulphate Precipitation

**Clonality**  
Polyclonal

**Isotype**  
IgG

### Applications

Our Abpromise guarantee covers the use of ab6482 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| ELISA       |           | 1/2000 - 1/10000.  
Dilute in PBS.
Relevance

Homocysteine is a chemical compound with the formula \( \text{HSCH}_2\text{CH}_2\text{CH(NH}_2\text{)CO}_2\text{H} \). It is a homologue of the naturally-occurring amino acid cysteine, differing in that its side-chain contains an additional methylene (-CH₂-) group before the thiol (-SH) group. Alternatively, Homocysteine can be derived from methionine by removing the latter's terminal C methyl group. Elevations of Homocysteine also occur in the rare hereditary disease homocystinuria and in methylene-tetrahydrofolate-reductase deficiency. The latter is quite common and usually goes unnoticed, although there are reports that thrombosis and cardiovascular disease occurs more often in people with elevated Homocysteine.

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