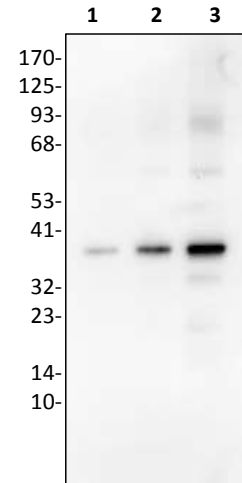


only Glycine Oxidase Antibody

CATALOG NO:	A1116-30T 30 µg (Trial size) A1116-100 100 µg
ALTERNATIVE NAMES:	Glycine oxidase, glycine oxygen oxidoreductase (deaminating), GO
CONCENTRATION:	0.5 mg/ml
IMMUNOGEN:	Glycine Oxidase H244K (Cat. No. 7845-1)
INTERNAL ID:	BV-Q43
MOLECULAR WEIGHT:	41 kDa
HOST/ISOTYPE:	Rabbit IgG
SPECIES REACTIVITY:	<i>Bacillus subtilis</i>
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:	Glycine oxidase (GO) from <i>Bacillus subtilis</i> (EC 1.4.3.19) is a homotetrameric flavin-dependent oxidoreductase. Each GO monomer is non-covalently bound to flavin adenine dinucleotide. GO catalyzes oxidative deamination of various primary and secondary amines (e.g. glycine, sarcosine, N-ethylglycine) and some D-amino acids (e.g. D -alanine, D -proline, D -valine) to the corresponding α-keto acids and hydrogen peroxide. Primarily, glycine oxidase catalyzes the oxidation of glycine in the biosynthesis of thiamine. The variant H244K shows a higher substrate specificity ratio for glycine versus sarcosine and a 5-fold improved specific activity in comparison to the wild-type.
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 Glycine Oxidase using anti- Glycine Oxidase antibody:

Lane 1: r Glycine Oxidase (Cat. No. 7845) 2ng
Lane 2: r Glycine Oxidase (Cat. No. 7845) 10ng
Lane 3: r Glycine Oxidase (Cat. No. 7845) 50ng

RELATED PRODUCTS:

- Glycine Oxidase H244K, *Bacillus subtilis* recombinant (**Cat. No. 7845-250**)
- Glycine Assay Kit (Fluorometric) (**Cat. No. K589-100**)
- Sarcosine Colorimetric/Fluorometric Assay Kit (**Cat. No. K636-100**)
- Cystathionine β Synthase, human recombinant (**Cat. No. 7844-100**)
- Cystathionine β-Synthase Antibody (**Cat. No. A1112-100**)
- Cytochrome Oxidase Activity Colorimetric Assay Kit (**Cat. No. K287-100**)
- Glucose Oxidase Activity Colorimetric/Fluorometric Assay Kit (**Cat. No. K788-100**)
- Monoamine Oxidase Activity (Total MAO/MAO-A/MAO-B) Fluorometric Assay Kit (**Cat. No. K795-100**)

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