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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-paraoxon (organophosphate) [A.17 L47K] Standard Size Ab04213-23.0

Isotype and Format: Rabbit IgG, Kappa

Clone Number: A.17 L47K

Alternative Name(s) of Target: L-Leu47Lys; A17 L47K; POX

UniProt Accession Number of Target Protein:

Published Application(s): Catalyzation, crystallization

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated via phage display from the Griffin.1 library by panning against reactive phosphonate ester 1.

Specificity: This antibody is specific for paraoxon.

Application Notes: This antibody is a covalent trap for Paraoxon and other organophosphate substrates, catalyzing the hydrolysis reaction through the S_N2 mechanism. The catalytic parameters of this antibody were measured, and its K_D was found to be $170 \pm 8 \mu\text{M}$; it exhibited a 340-fold reactivity enhancement for paraoxon relative to wild-type Ig-paraoxonase. Furthermore, its crystal structure in complex with paraoxon was determined (Mokrushina et al., 2020; PMID: 32859757).

Antibody First Published in: Mokrushina et al. Multiscale computation delivers organophosphorus reactivity and stereoselectivity to immunoglobulin scavengers Proc Natl Acad Sci U S A. 2020 Sep 15;117(37):22841-22848. doi: 10.1073/pnas.2010317117. Epub 2020 Aug 28 [PMID:32859757](#)

Note on publication: The original publication explores the enhancement of immunoglobulin (Ig) catalytic activity against organophosphorus toxins through quantum mechanics/molecular mechanics (QM/MM) maturation.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.