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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Caffeine [VSA2] Bulk size M Ab03256-23.159-BS

Isotype and Format: Rabbit IgG-Fc fusion

Clone Number: VSA2

Alternative Name(s) of Target: C8H10N4O2; guaranine; methyltheobromine; 1,3,7-Trimethylxanthine; 7-methyltheophylline; theine theophylline; theobromine; paraxanthine; CHEBI:27732; α -Caff-A

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing camelid species (llama and camel) with caffeine-KLH conjugate. The peripheral blood lymphocytes from the camels was used to generate VHH phage display libraries and the particular clones was isolated by screening the library against caffeine-BSA conjugate.

Specificity: This antibody binds caffeine and has low affinity for compounds like theophylline, theobromine and paraxanthine. Caffeine is a central nervous system (CNS) stimulant of the methylxanthine class. The best-known source of caffeine is the coffee bean, the seed of the Coffea plant. It is present in drinks like coffee, tea and colas.

Application Notes: This antibody is highly heat stable and is shown to recover its reactivity after exposure to temperatures up to 90 degrees C. This antibody was able to bind caffeine at 70 degrees C. The binding reactivity of this antibody for caffeine and other compounds like theophylline, theobromine and paraxanthine was determined using ELISA (PMID: 16808459; 19560409; US7615218). A competition caffeine ELISA was developed for the measurement of caffeine content in beverages like coffee, Coca-Cola and Diet Coke. This antibody is capable of removing caffeine from coffee and furthermore can remove caffeine from even "decaffeinated" coffee (PMID: 16808459; US7615218).

Antibody First Published in: Ladenson et al. Isolation and characterization of a thermally stable recombinant anti-caffeine heavy-chain antibody fragment. Anal Chem. 2006 Jul 1;78(13):4501-8.

[PMID:16808459](#)

Note on publication: Describes the generation and characterization of this antibody.

Product Form

Size: 5 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In:

PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: See vial label

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