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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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-gB [1G2] Bulk Size Ab04495-23.0-BT

Isotype and Format: Rabbit IgG, Lambda

Clone Number: 1G2

Alternative Name(s) of Target: Envelope glycoprotein B; UL55; Ab-50

UniProt Accession Number of Target Protein: P13201

Published Application(s): crystallography, FACS, in vitro, IP, neutralization, SPR, ELISA, FC

Published Species Reactivity: Human Cytomegalovirus

Immunogen: The original antibody was isolated from EBV transformed human peripheral blood derived B cells derived from hCMV-infected donors.

Specificity: This antibody is specific for a surface epitope in antigenic domain 5 (AD-5), also termed Domain I (Dom I), of Human cytomegalovirus (hCMV) (strain Towne), also called Human herpesvirus 5 (HHV-5). Dom I resides between amino acid residues 133 to 343 of the gB of hCMV strain AD169 and has the following sequence: IVAHTFKVRVYQKVLTFRRSYAYIYTTYLLGSNTEYVAPPMWEIHHINKFAQCYSSYSRVIG GTVFAVYHRDSYENKTMQLIPDDYSNTHSTRYVTVKDQWHSRGSTWLYRETCNLNCLMLT ITTARSKYPYHFFATSTGDVVYISPFYNGTNRNASYFGENADKFFIFPNYITVSDFGRPNAA PETHRLVAFLERADSVISWDIQDEKNVT. The exact epitope lies between Tyr280-Phe300, or: Y-NGTNRNASYFGENADKFFIF-P.

Application Notes: The original version of the antibody was used in a neutralization assay against human cytomegalovirus (hCMV). It was found to neutralize hCMV with high potency — it neutralized the virus with an IC_{50} of 0.1 $\mu\text{g/ml}$ and an IC_{90} of 0.4 $\mu\text{g/ml}$ (US9346874B2). The Fab version of this antibody was generated and its structure in complex with hCMV gB was explored using crystallography. It was also used in neutralization assays, surface staining of full-length gB in flow cytometry, and gB immunoprecipitation (Chandramouli et al., 2015; PMID: 26365435).

Antibody First Published in: Pöttsch et al. B cell repertoire analysis identifies new antigenic domains on glycoprotein B of human cytomegalovirus which are target of neutralizing antibodies. PLoS Pathog. 2011 Aug;7(8):e1002172. doi: 10.1371/journal.ppat.1002172. PMID:21852946

Note on publication: The original publication investigates the B-cell response to glycoprotein B (gB) of human cytomegalovirus (HCMV) in healthy infected individuals, identifying new antigenic domains (AD-4 and AD-5) targeted by neutralizing antibodies, which could inform vaccine design and antibody therapies.

Product Form

Size:

1 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: 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.