SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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

Anti-DOTA (metal-bound) [2D12.5] Bulk Size Ab03322-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Lambda
Clone Number: 2D12.5
Alternative Name(s) of Target: Tetraxetan; dodecane tetra acetic acid; CHEBI:61028; Yttrium(III) labeled DOTA; Y-DOTA; Yttrium-1 4 7 10-tetraazacyclododecanetetraacetic acid; metal-DOTA
UniProt Accession Number of Target Protein:
Published Application(s): radioimmunotherapy
Published Species Reactivity: Species independent
Immunogen: The original antibody was generated by immunizing BALB/c mice with KLH-21T-BAD-Y(III).
Specificity: This antibody binds DOTA (Tetraxetan) and also shows binding affinity for This antibody binds metal bound DOTA (Tetraxetan) and also shows binding affinity for Yttrium(III) labeled DOTA, (S) nitro benzyl-DOTA chelates and Janus-DOTA (a bivalent form of DOTA). DOTA is a chelating agent which can be labelled with radioactive yttrium ion and even conjugated with monoclonal antibodies for radioimmunotherapy.
Application Notes: The original mouse IgG1 antibody binds DOTA chelates of all the rare earths with approximately Kd ≈ 10(-8) M, making it useful for the capture of probe molecules with a variety of properties (PMID: 15546206). The original IgG1 version of this antibody was used in the pretargeting for radioimmunotherapy in BALB/c mice with KHJJ tumors (PMID: 7954426). In vivo clearance studies have demonstrated that 74-96% of 2D12.5 bound to metal chelates is present 24 hours after administration of the bound complex (US7528235). An engineered version of this antibody with a single cysteine residue at position 54, 55 or 56 of the heavy chain, a site proximal to the protein's binding site, enables formation of weakly electrophilic metal complexes of (S)-2-(4-acrylamidobenzyl)-DOTA (AABD) that may bind and form permanent linkages (PMID: 15546206; 15546207). The heavy chain G54C mutant had a small set of electrophilic ligands, differences in reactivity indicated that the substituents near the electrophilic atom can be important determinants of permanent binding (PMID: 15546207).
Antibody First Published in: Goodwin et al. Pharmacokinetics of pretargeted monoclonal antibody 2D12.5 and 88Y-Janus-2-(p-nitro benzyl)-1,4,7,10-tetraazacyclododecanetetraacetic acid (DOTA) in BALB/c mice with KHJJ mouse adenocarcinoma: a model for 90Y radioimmunotherapy. Cancer Res. 1994 Nov

15;54(22):5937-46. PMID:7954426
Note on publication: Describes the pretargeting and pharmacokinetics of antibody 2D12.5 and DOTA for radioimmunotherapy in mouse models.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
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.