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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CENP-B [5D1] Standard Size Ab03244-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: 5D1

Alternative Name(s) of Target: CENPB; Centromere protein B; Major centromere autoantigen B

UniProt Accession Number of Target Protein: P07199

Published Application(s): WB, ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing a barnevelder chicken with an antibody antigen cocktail comprising recombinant purified human antigens annexin XI, CENP-B, Topo, Jo-1, Ro60, Rpp38 and U1A in complete Freund's adjuvant. B cells that were harvested from the bone marrow and peripheral blood lymphocytes of immunized chickens was used to generate recombinant scFv phage display libraries. The specific clone was identified by panning the library against specific antigen.

Specificity: This antibody binds human major centromere autoantigen B (CENP-B). It is a DNA-binding protein that is derived from transposases of the pogo DNA transposon family. It contains a helix-loop-helix DNA binding motif at the N-terminus, and a dimerization domain at the C-terminus. It interacts with centromeric heterochromatin in chromosomes and binds to a specific 17 bp subset of alphoid satellite DNA, called the CENP-B box. This protein is proposed to play an important role in the assembly of specific centromere structures in interphase nuclei and on mitotic chromosomes. It is also considered a major centromere autoantigen recognized by sera from patients with anti-centromere antibodies.

Application Notes: The binding characterization of this antibody was done using ELISA. This antibody is also capable of recognizing human CENP-B in a western blot assay (PMID: 18062792).

Antibody First Published in: Hof et al. Multiple-antigen immunization of chickens facilitates the generation of recombinant antibodies to autoantigens. Clin Exp Immunol. 2008 Feb; 151(2): 367-377.

[PMID:18062792](#)

Note on publication: Describes the generation of chicked antibodies against various human autoantigens.

Product Form

Size: 50 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.