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Forschungsprodukte & Biochemikalien



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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-SN-38 [1H3-1] Standard Size Ab04092-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG2b format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: 1H3-1

Alternative Name(s) of Target: SN38; Topotecan; Camptothecin; CPT; 9-[(dimethylamino)methyl]-10-hydroxy-(4S)-camptothecin; 10-Hydroxy-7-ethylcamptothecin; 7-Ethyl-10-hydroxy-20(S)-camptothecin; 7-Ethyl-10-hydroxycamptothecin; NK 012; NK-012

UniProt Accession Number of Target Protein:

Published Application(s): SPR, ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing BALB/c mice with SN38-BSA conjugate.

Specificity: This antibody binds SN-38, which is an active metabolite of irinotecan (a semisynthetic analog of camptothecin - a topoisomerase I inhibitor) generated by carboxyl esterases through hydrolysis. SN-38 has potential antineoplastic activity. It binds and inhibits topoisomerase I by stabilizing the cleavable complex between topoisomerase I and DNA, resulting in DNA breaks, inhibition of DNA replication, and apoptosis. In vitro cytotoxicity assays have shown that SN-38 is 1,000-times more cytotoxic than irinotecan against various cancerous cells. SN-38 is commonly used as a cytotoxic drug payload in the ADC field.

Application Notes: The binding reactivity of this antibody to SN38-BSA conjugate was determined using ELISA. The binding affinity of this antibody to SN38-KLH conjugate was determined using surface plasmon resonance (SPR). It was reported that this antibody binds SN38-KLH conjugate with a binding affinity of $K_d=3.06$ nM (CN115197323).

Antibody First Published in: [PMID:](#)

Note on publication:

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.