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Produktinformation



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-Hepatocyte growth factor [t8E4] Standard Size Ab03838-10.3

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 IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

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

Clone Number: t8E4

Alternative Name(s) of Target: HGF; HPTA; Hepatopoietin-A; Scatter factor

UniProt Accession Number of Target Protein: P14210

Published Application(s): crystallization, inhibition, IP, SPR, WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing MRL/lpr mice with tcK2SP(Xa).

Specificity: This antibody recognizes the active (two-chain) tcHGF but not the inactive (single-chain) scHGF. It does not cross-react with mouse HGF.

Application Notes: The specificity of the original format of the antibody for HGF was confirmed by ELISA analysis. The antibody weakly inhibits the HGF activity only at low concentration range. The binding affinity of the antibody toward the HGF proteins was tested, and obtained KD values of 2.19 nM and 1.10 nM for tcK2SP(Xa) and tcK4SP(Xa), respectively. The antibody could specifically immunoprecipitate tcHGF (Umitsu et al., 2016; PMID: 27608665). The crystal structure of the Fab fragment of the antibody in complex with the active form of HGF was determined. The antibody selectively recognized tcHGF in western blot analysis. The antibody was used for immunohistochemistry staining of HGF in fore and hind-stomach and in the corpus epithelium of the adult stomach (Jangphattananont et al., 2019; PMID: 31212972).

Antibody First Published in: Umitsu et al. Probing conformational and functional states of human hepatocyte growth factor by a panel of monoclonal antibodies. Sci Rep. 2016 Sep 9;6:33149.

[PMID:27608665](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

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.