



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# Anti-Hepatocyte growth factor [t1E4] Standard Size Ab03839-3.0

**Isotype and Format:** Mouse IgG2b, Kappa

**Clone Number:** t1E4

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

**UniProt Accession Number of Target Protein:** P14210

**Published Application(s):** inhibition, IP, SPR, ELISA

**Published Species Reactivity:** Human

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

**Specificity:** The antibody is specific for HGF. It can bind to the two chains and to the single chain HGF. It recognizes an epitope located within the K4-SP region.

**Application Notes:** The specificity of the original format of the antibody for HGF was confirmed by ELISA analysis. The authors investigated if the antibody has any effect on the HGF-Met signaling. Met activation was strongly inhibited by the antibody, with an IC50 value of ~0.15 µg/ml or 0.1nM. In particular, antibody caused dose dependent reduction of the HGF-induced phosphorylation levels of Met (Tyr1234/1235), Akt (Ser473), and ERK (Thr202 and Tyr204). The inhibitory action of the antibody was further evaluated by two cell-based assays. The effect of all antibody on the HGF-induced scattering of Madin-Darby canine kidney (MDCK) cells was evaluated, and confirmed that only it could strongly suppress the scattering behavior of the cells when added at 10 µg/ml. Furthermore, the antibody was able to inhibit the HGF-stimulated migration of human liver bile duct carcinoma cells with a similar concentration dependency as the inhibition of Met phosphorylation in EHMES-1 cells. The antibody immunoprecipitated both scHGF and tcHGF. The binding affinity of the antibody toward the HGF proteins was tested by SPR.

**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.