



# 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

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Urease alpha subunit [HpU-2] Standard Size Ab00764-2.0

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Kappa

**Clone Number:** HpU-2

**Alternative Name(s) of Target:** urease-alpha; alpha-urease; urease

**UniProt Accession Number of Target Protein:** P14916

**Published Application(s):** inhibit, SPR, ELISA

**Published Species Reactivity:** Helicobacter pylori

**Immunogen:** HpU-2 was prepared by subcutaneous injection of purified H. pylori urease into BALB/c mice.

**Specificity:** HpU-2 binds specifically to H. pylori at the epitope with sequence SVELIDIGGNRRRIFGFNALVDR - the sequence is part of a loop near to the C-terminus of the alpha subunit of urease (the beta subunit possesses the active site). HpU-18 competes with HpU-2 for binding to this epitope. H. pylori is a gram negative spiral bacterium and causes numerous gastroduodenal diseases. It expresses large amounts of urease when present in the human stomach; urease is key for the survival and pathogenesis of the bacteria as it neutralizes the acidity in the stomach by hydrolysis of urea into ammonia.

**Application Notes:** HpU-2 results in ~82% inhibition (allosteric inhibition) of urease activity and the inhibitory activity is increased to 87% when HpU-2 is used in combination with HpU-19. HpU-2 has been shown to be unsuccessful for use in IHC of formalin-fixed sections of H. pylori-infected human cells. HpU-2 can also be used in SPR and ELISA studies.

**Antibody First Published in:** Fujii et al. Epitope mapping and features of the epitope for monoclonal antibodies inhibiting enzymatic activity of Helicobacter pylori urease. Biotechnol Bioeng. 2004 May 20;86(4):434-44. [PMID:15112296](#)

**Note on publication:** Describes the investigation into the inhibitory mechanism of HpU-2 against H. pylori urease. The binding epitope was determined by SPR and molecular modelling.

### Product Form

**Size:** 200 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.