SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

CD57 (HNK-1); Clone NK-1
(Ready-To-Use)

Availability/Contents:

Item #	Volume
A00117-0002	2 ml
A00117-0007	7 ml
A00117-0025	25 ml

Description:

Species:	Mouse
Immunogen:	Human peripheral blood mononuclear cells were used as immunogen.
Clone:	NK-1
Isotype:	Mouse IgM, Kappa
Format:	This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.
Specificity:	The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.
Background:	CD57 is a terminally sulfated glycan carbohydrate epitope (glycoepitope) first discovered on HNK (human natural killer) cells in 1981. CD57 is also referred to as CD57 antigen and HNK1. CD stands for cluster of differentiation and HNK1 for human natural killer1. Historically, the term CD57 has been used in immunology and antibody to CD57 is important for defining lymphocytic subpopulations. CD57 antibody positive lymphocytes are typically either T or NK cells and are commonly found within the germinal centers of the spleen, lymph nodes and tonsils. CD57 antibody positivity in T lymphocytes has long been used as a marker of in vitro replicative senescence (clonal exhaustion). CD57 antibody positive T lymphocytes have a high susceptibility to activation-induced death. CD57 upregulation or unusual CD57 antibody positivity patterns have been identified in diseases including autoimmunity, chronic infections, and malignancies. Increased CD57 antibody positivity has also been associated with aging, allogenic transplantation, and even physical and psychological stress. It is increasingly being recognized that CD57 has important roles in the nervous system where it most often referred to as HNK1. HNK1 (CD57) is predominantly expressed in brain and peripheral nerve tissue where it is involved in development, homeostasis, normal development and neurogenic pathology. For example, HNK1 antibody positivity has been used as a marker to identify neuroendocrine cells and their tumors as expression is high in both. It is also notable that HNK1 autoantibodies have been detected in peripheral demyelinating neuropathy underscoring the importance of the immune system in neurological function.
Species Reactivity:	Human.
Positive Control:	Tonsil, spleen, lymph node.
Cellular Localization:	Membrane.
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.

Storage: 2° C – 8° C

ScyTek Laboratories, Inc.
205 South 600 West
Logan, UT 84321
U.S.A.

EC REP EmergoEurope (31)(0) 70 345-8570
Molsnstraat 15
2513 BH Hague, The Netherlands

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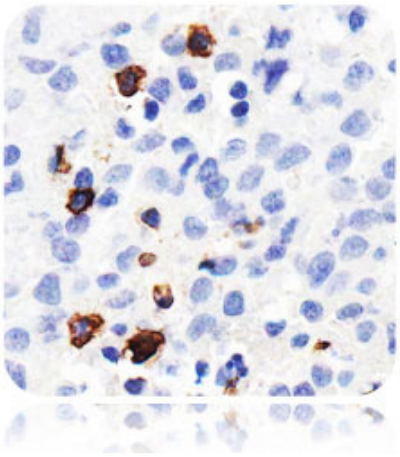
Uses/Limitations:

Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.



Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment:** Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500) or Citrate Buffer (10x), pH 6.0 (ScyTek Catalog# CBB500, see IFU for instructions).

2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Burger D, AJ Steck, CC Bernard, N Kerlero de Rosbo. Journal Neurochem 61:1822-1827 (1993).
2. Guarino M. Pathol Res Pract 189:913-920 (1993).
3. Cavazzana AO, V Ninfo, J Roberts, TJ Triche. Modern Pathol 5:71-78 (1992).
4. Focosi D, M Bestagno, O Burrone, M Petrini. J Leukoc Biol. 87:107-116 (2010).
5. Kizuka Y, S Oka. Cell Mol Life Sci. DOI 10.1007/s00018-012-1036-z (2012).

Warranty:

No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

Storage: 2° C – 8° C

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