

CD45RO (UCHL-1)


Mouse anti-human CD45RO Monoclonal Antibody (Clone UCHL-1)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use** (manual or LabVision AutoStainer)
MAD-005035QD-3
MAD-005035QD-7
MAD-005035QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-005035QD-3/V
MAD-005035QD/V
- **concentrated**
MAD-005035Q - 1:100 recommended dilution

COMPOSITION

Anti-human CD45RO mouse monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: UCHL-1

Ig ISOTYPE: Mouse IgG2a/k

IMMUNOGEN: Cultured human T-cells from an IL-2-dependent T-cell line (CA1)

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS: The CD45RO antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO) (4th Leukocyte Typing Workshop: Code No. N31). The epitope recognized by this antibody is sensitive to neuraminidase digestion.



This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Reportedly, it is useful to identify T-cell lymphomas and leukemias. It rarely stains NK cells or B-cell lymphomas.

IHC POSITIVE CONTROL: Lymph node, tonsil

VISUALIZATION: Cell membrane and cytoplasm

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:
- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).
For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Ref: MAD-004072R/D












downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

BIBLIOGRAPHY

1. Hall PA, d'Ardenne AJ, Stansfeld AG: Paraffin section immunohistochemistry. I. Non-Hodgkin's lymphoma. *Histopathology*; **13**:149-60. 1988.
2. Hall PA, d'Ardenne AJ, Stansfeld AG: Paraffin section immunohistochemistry. II. Hodgkin's disease and large cell anaplastic (Ki1) lymphoma. *Histopathology*; **13**:161-9. 1988.
3. Terry LA, Brown MH, Beverley PC: The monoclonal antibody, UCHL1, recognizes a 180,000 MW component of the human leucocyte-common antigen, CD45. *Immunology*; **64**: 331-6. 1988.
4. Corwin DJ, Gown AM: Review of selected lineage-directed antibodies useful in routinely processed tissues. *Arch Pathol Lab Med*; **113**: 645-52. 1989.
5. Gloghini A, De Paoli P, Gaidano G, Franceschi S, Carbone A: High frequency of CD45RO expression in AIDS-related B-cell non-Hodgkin's lymphomas. *Am J Clin Pathol*; **104**: 680-8. 1995
6. Aboulafia D, Gown AM, Kidd P: AIDS-associated B-cell non-Hodgkin's lymphoma masquerading as a cutaneous T-cell neoplasm: an aberrant immunophenotype requiring comprehensive analysis for lineage resolution. *Am J Dermatopathol*; **19**: 66-72. 1997
7. Derringer GA, Thompson LD, Frommelt RA, Bijwaard KE, Heffess CS, Abbondanzo SL: Malignant lymphoma of the thyroid gland: a clinicopathologic study of 108 cases. *Am J Surg Pathol*; **24**: 623-39. 2000
8. Hermiston ML, Xu Z, Weiss A: CD45: a critical regulator of signaling thresholds in immune cells. *Annu Rev Immunol*; **21**:107-37. 2003.

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet

LABEL AND BOX SYMBOLS



Vitro S.A
Calle Luís Fuentes Bejarano 60 Ed. Nudo Norte Local 3 41020 Sevilla (Spain)
Tel: +34 954 933 200. viro@vitro.bio ; www.vitro.bio



Rev.: 2020-09-21