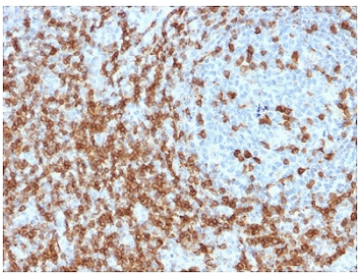
CD5 Antibody CD5/2419 / Microarray Specificity Validated Antibody [clone CD5/2419] (V7378)

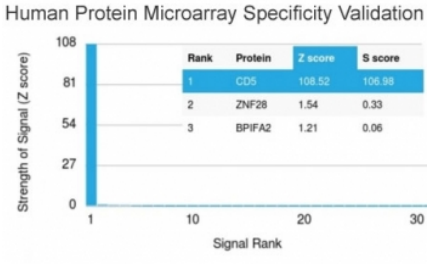
Catalog No.	Formulation	Size
V7378-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7378-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7378SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7378IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	CD5/2419
Purity	Protein G affinity chromatography
UniProt	P06127
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD5 Antibody CD5/2419 / Microarray Specificity Validated Antibody is available for research use only.



CD5 Antibody CD5/2419. Immunohistochemistry analysis of CD5 antibody staining in FFPE human tonsil tissue using a microarray specificity validated antibody. Strong membranous staining is observed in T lymphocytes within interfollicular regions, with dense labeling surrounding germinal centers while follicular B cell areas remain largely negative. The staining pattern highlights normal tonsillar architecture and supports selective detection of CD5-positive T cell populations, consistent with microarray specificity validation. Heat-induced epitope retrieval was performed in 10 mM citrate buffer, pH 6, for 10-20 minutes followed by cooling at room temperature prior to antibody incubation.



CD5 Antibody CD5/2419. Protein microarray specificity analysis using a HuProt microarray containing more than 19,000 full-length human proteins demonstrates highly selective binding of the CD5/2419 monoclonal antibody to CD5. CD5 is identified as the top-ranked target with strong signal intensity (Z-score ~108.52) and clear separation from the next highest signals (S-score ~106.98), while all other proteins show minimal background binding. The Z-score reflects signal strength relative to the array mean, and the S-score represents the separation between the intended target and the next ranked protein, indicating relative specificity. These results support the high specificity profile of the CD5/2419 antibody for its intended target in proteome-scale screening.

Description

CD5 is a cell surface glycoprotein belonging to the scavenger receptor cysteine-rich (SRCR) superfamily, expressed primarily on T lymphocytes and a subset of B cells. CD5 Antibody CD5/2419 / Microarray Specificity Validated Antibody is designed for selective detection of CD5, with validation data supporting its specificity through targeted microarray-based screening approaches. CD5 antibody, also referred to as T cell surface glycoprotein CD5 antibody or LEU1 antibody, is widely used to identify lymphocyte populations and study immune system organization across a range of biological contexts.

CD5 plays a central role in modulating antigen receptor signaling, contributing to the regulation of T cell activation and maintenance of immune tolerance. Its consistent expression on mature T cells and restricted presence on certain B cell subsets make it a valuable marker for studying lymphocyte identity, immune cell dynamics, and disease-associated populations. CD5 antibody is therefore commonly used in research focused on immune responses, lymphoid tissue structure, and hematologic malignancies.

Microarray specificity validation provides a focused assessment of antibody selectivity by evaluating binding across panels of potential off-target proteins under controlled conditions. CD5 antibody clone CD5/2419 has been characterized using this approach, supporting its ability to preferentially recognize CD5 while minimizing non-specific interactions. This type of validation is particularly important when studying proteins within complex biological samples, where closely related proteins or background signals can complicate interpretation.

The specificity-centered validation of CD5 antibody clone CD5/2418 makes it especially suitable for experiments requiring precise discrimination between target and non-target proteins. This includes applications in immune profiling, disease research, and protein expression analysis, where accurate detection is essential for reliable conclusions. By reducing the likelihood of off-target binding, this antibody supports cleaner signal interpretation and improved experimental consistency.

This mouse monoclonal antibody clone CD5/2419 has been referenced in peer-reviewed publications, supporting its use in established research systems. Its consistent performance in detecting CD5, combined with its specificity-focused validation profile, makes it a dependable tool for studies of immune cell biology and lymphocyte characterization. The monoclonal format further supports reproducibility across experiments.

Because CD5 is a key marker of lymphocyte populations and immune regulation, CD5 antibody clone CD5/2419 is widely

used in studies of immune system function, lymphoid tissue organization, and disease-associated changes in immune cell composition where high specificity and selective target recognition are critical.

For additional CD5 research, explore our CD5 Antibody CD5/2416, a mouse monoclonal antibody with HuProt protein microarray specificity validation and supporting Western blot, IHC, and flow cytometry data.

Application Notes

The optimal dilution of the CD5 Antibody CD5/2419 / Microarray Specificity Validated Antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 269-366 from the human protein was used as the immunogen for this CD5 antibody.

Storage

Store the CD5 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD5 clone CD5/2419 antibody, CD5 2419 antibody, CD5 microarray specificity antibody, CD5 monoclonal antibody 2419, CD5 selective antibody

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