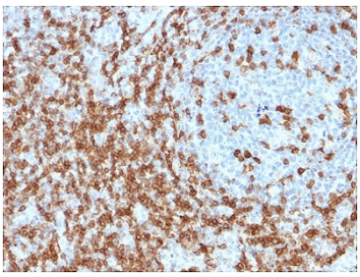
CD5 Antibody Clone CD5/2418 / Microarray Specificity Validated Antibody [clone CD5/2419] (V7378)

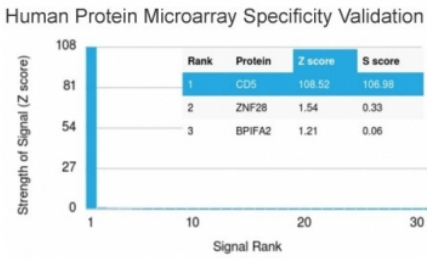
Catalog No.	Formulation	Size
V7378-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7378-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7378SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7378IHC-7ML	Prediluted 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 Clone CD5/2418 / Microarray Specificity Validated Antibody is available for research use only.



CD5 Antibody Clone CD5/2418. 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 Clone CD5/2418. Protein microarray specificity analysis using a HuProt microarray containing more than 19,000 full-length human proteins demonstrates highly selective binding of the CD5/2418 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 CD5/2418 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 Clone CD5/2418 / 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 CD5/2418 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 CD5/2418 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 CD5/2418 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.

A full range of CD5 antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD5 Antibody collection page.

Application Notes

The optimal dilution of the CD5 Antibody Clone CD5/2418 / 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 CD5/2418 antibody, CD5 2418 antibody, CD5 microarray specificity antibody, CD5 monoclonal antibody 2418, CD5 selective antibody

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