

# Product Data Sheet

## Biotin anti-human CD5

**Catalog # / Size:** 300604 / 100 µg

**Clone:** UCHT2

**Isotype:** Mouse IgG1, κ

**Workshop Number:** III 518

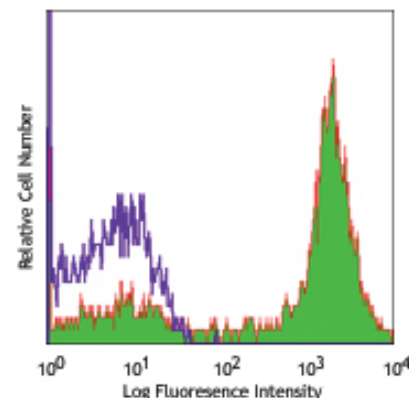
**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee, Capuchin Monkey, Common Marmoset

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human peripheral blood lymphocytes were stained with biotinylated CD5 (clone UCHT2) (filled histogram) or biotinylated mouse IgG1, κ isotype control (open histogram).

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, it is recommended to use at ≤ 0.5 µg per 10<sup>6</sup> cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: Western blotting<sup>2</sup> and immunohistochemical staining of acetone-fixed frozen sections<sup>2,5</sup>.

**Application References:**

1. Knapp W, *et al.* 1989. Leucocyte Typing IV Oxford University Press. New York.
2. Renaudineau Y, *et al.* 2005. *Blood* 106:2781. (WB IHC)
3. Porter JC and Hogg N. 1997. *J. Cell Biol.* 138:1437.
4. Saliba AE, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:14524. PubMed
5. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)

**Description:** CD5 is a 67 kD single chain type I glycoprotein also known as Leu-1, Ly-1 and T1. It is a member of the scavenger receptor superfamily found on T cells, thymocytes, B cell subsets, chronic B lymphocytic leukemia (B-Cells), and peripheral blood dendritic cells. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T-B cell interactions upon binding to ligands such as CD72.

**Antigen References:**

1. Kipps T. 1988. *Adv. Immunol.* 47:117.
2. Resnick D, *et al.* 1993. *Trends Biochem. Sci.* 19:5.
3. Wood GS, *et al.* 1992. *Am. J. Pathol.* 14:789.

### Related Products:

Product	Clone	Application
Biotin anti-human CD19	H1B19	FC
Biotin anti-human CD3	HIT3a	FC
Biotin anti-human CD3	UCHT1	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
HRP Streptavidin		ELISA, ELISPOT, IHC, WB
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

### Clone

H1B19  
HIT3a  
UCHT1  
MOPC-21

### Application

FC  
FC  
FC  
FC, ICFC  
FC, ICFC  
FC, ICFC  
ELISA, ELISPOT, IHC, WB  
FC, ICFC  
FC, ICFC  
FC, ICFC  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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