

## Product datasheet for **EA200021**

### Human CD5 ELISA Kit 1 x 96

#### Product data:

Product Type:	ELISA Kits
Description:	Human CD5 ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	4.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	31pg/ml-2000pg/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human Soluble CD5
Sensitivity:	5pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none"><li>• sCD5 Antibody Coated 96-well Plate in foil pouch with desiccant   1 plate</li><li>• Recombinant Human sCD5 Standard (100ng/ml)   0.1 mL</li><li>• 100x Biotin conjugated Procalcitonin Detection Antibody   0.12 mL</li><li>• 100x Streptavidin-HRP   0.12 mL</li><li>• Assay Buffer   50 mL</li><li>• Serum Sample Diluent   15 mL</li><li>• Wash Buffer Concentrate 20X   60 mL</li><li>• TMB Substrate   12 mL</li><li>• Stop Solution   12 mL</li><li>• Plate Sealer   3 pieces</li></ul>



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**Background:**

CD5 is a 67 kDa type I glycoprotein which belongs to the Scavenger Receptor Cysteine-Rich family of receptors. It is expressed on the surface of T cells and in a subset of murine B cells known as B-1a. CD5 serves to mitigate activating signals from the BCR so that the B-1 cells can only be activated by very strong stimuli. A number of studies have reported that CD5 is involved in the modulation of antitumor responses. CD5 is a good immunohistochemical marker for T-cells. About 76% of T-cell neoplasms are reported to express CD5, and it is also found in chronic lymphocytic leukemia and mantle cell lymphoma. CD5 is commonly lost in cutaneous T-cell lymphoma, and its absence can be used as an indicator of malignancy in this condition. The absence of CD5 in T cell acute lymphoblastic leukemia is associated with a poor prognosis. Some research data confirmed the prognostic value of CD5 expression in NSCLC. Natural soluble CD5 form (sCD5) is a N-glycosylated 52 kDa molecule present in normal human serum, which is released via proteolytic cleavage of membrane form during lymphocyte activation. Circulating sCD5 levels are increased in several autoimmune disorders such as rheumatoid arthritis and systemic lupus erythematosus.

**Gene Symbol:**

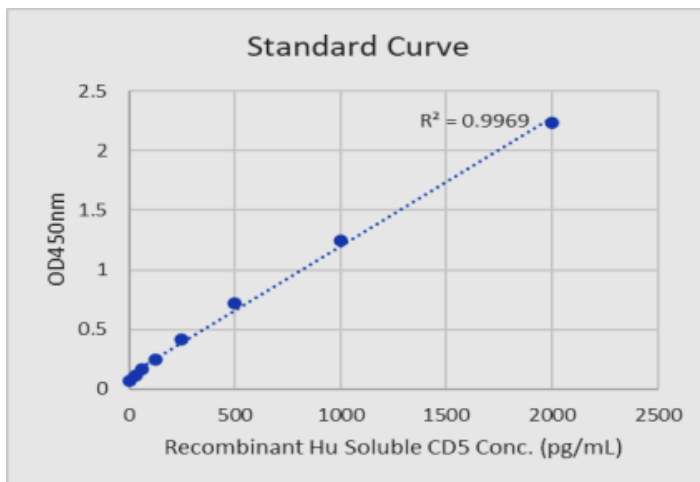
CD5

**Gene ID:**

921

**Standard Curve:**

□  
Data image of Human CD5 ELISA Kit.

**Product images:**

Data image of Human CD5 ELISA Kit.