

Product datasheet for **EA200014**

Calprotectin ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human Calprotectin ELISA Kit for the detection of Human Calprotectin in serum, plasma, and other biological fluids.
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich ELISA kit of Quantitative Detection for Human Calprotectin
Assay Length:	4 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	9.4pg/ml-600pg/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human Calprotectin
Sensitivity:	4.84pg/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">● Calprotectin Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate● Recombinant Human Calprotectin Standard (30ng/ml) 0.1 mL● 100x HRP conjugated Calprotectin Detection Antibody 0.12 mL● Assay Buffer 55 mL Sample Diluent 25 mL● Wash Buffer Concentrate 20X 60 mL● TMB Substrate 12 mL● Stop Solution 12 mL● Plate Sealer 2 pieces



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Background:

Calprotectin is a complex of the mammalian proteins S100A8 and S100A9. It is also known as MRP8-MRP14, calgranulin A and B, cystic fibrosis antigen. The human calprotectin is a 24 kDa dimer, and is formed by the protein monomers S100A8 (10,835 Da) and S100A9 (13,242 Da). In the presence of calcium, calprotectin is capable of sequestering the transition metals iron, manganese and zinc via chelation. This metal sequestration affords the complex antimicrobial properties. Calprotectin comprises as much as 60% of the soluble protein content of the cytosol of a neutrophil, and it is secreted during inflammation. Fecal calprotectin has been used to detect intestinal inflammation and can serve as a biomarker for inflammatory bowel diseases (IBD). Blood based calprotectin (in serum and plasma) is used in diagnostics of multiple inflammatory diseases, including autoimmune diseases, like arthritis, and severe infections including sepsis.

Gene Symbol:

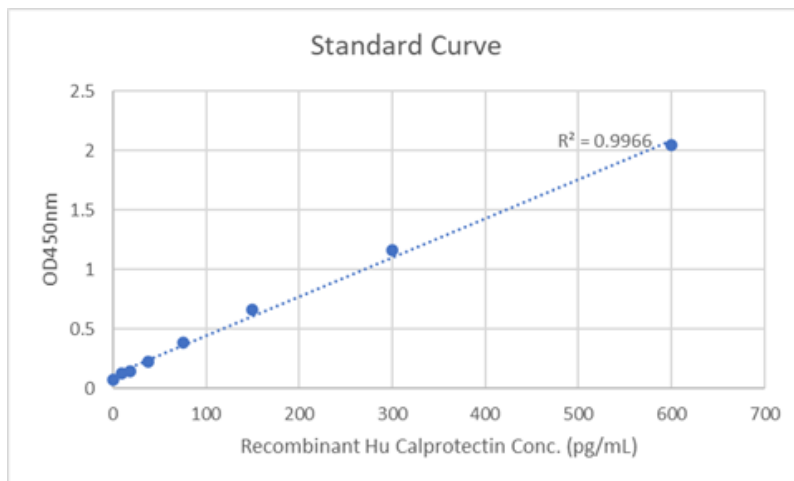
S100A8

Gene ID:

6279

Standard Curve:

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Data image for Calprotectin ELISA Kit.

Product images:

Data image for Calprotectin ELISA Kit.