ARG80351
Human ACPA ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80351 Human ACPA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ACPA in serum and plasma.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	ACPA
Sensitivity	1 U/ml
Sample Type	Serum and plasma.
Standard Range	20 - 1000 U/ml
Sample Volume	10 µl
Alternate Names	EC 3.4.21.76; MBN; Neutrophil proteinase 4; PR-3; Wegener autoantigen; AGP7; CANCA; C-ANCA antigen; C-ANCA; Leukocyte proteinase 3; ACPA; PR3; NP-4; MBT; NP4; Myeloblastin; P29

Application Instructions

Assay Time	30, 15, 15, 5 min (RT)

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 5657 Human Swiss-port # P24158 Human
Gene Symbol	PRTN3
Gene Full Name	proteinase 3
Background	Rheumatoid arthritis (RA) is one of the most common autoimmune diseases. The main characteristic of RA is joint inflammation that results in joint damage and loss of function. An early diagnosis of RA and an immediate beginning of an appropriate treatment is important to prevent a complete joint damage. RA is diagnosed primarily on clinical manifestations and serological support has, up to now, been mainly restricted to the determination of autoantibodies against rheumatoid factor (RF). RF is a sensitive serological marker for RA with a moderate specificity of about 70%. In several studies it has been demonstrated that the determination of antibodies against citrullinated arginine residues in filament proteins occurs in RF negative patients. Citrullination is a peptidylarginine deiminase (PAD) catalyzed

process in which the amino acid arginine (Arg) is modified to citrullin. During this conversion, the positively charged NH2-group is hydrolyzed to an oxygen group.
ACPA ELISA shows both a high specificity and a high sensitivity for auto-antibodies against citrullinated vimentin. Vimentin is an omnipresent citrullinated protein which was observed in the rheumatoid synovial tissue of RA patients. There are recent findings of secernation and modification of vimentin by macrophages depending on pro-inflammatory signals. The titer of antibodies against vimentin in RA patients strongly correlates with the disease activity score (DAS).

Resrarch Area	Signaling Transduction kit