

## Product datasheet for **AR52066PU-S**

### CD38 (43-300, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	CD38 (43-300, His-tag) human protein, 50 µg
Species:	Human
Expression cDNA Clone or AA Sequence:	ADPEFVPRWR QQWSGPGTTK RFPETVLARC VKYTEIHPPEM RHVDCQSVWD AFKGAFISKH PCNITEEDYQ PLMKLGTQTV PCNKILLWSR IKDLAQFTQ VQRDMFTLED TLLGYLADDL TWCGEFNTSK INYQSCPDWR KDCSNNPVSF FWKTVSRRFA EAACDVVHVM LNGRSKIFD KNSTFGSVEV HNLQPEKVQT LEAWVIHGGR EDSRDLCDP TIKELESIS KRNIQFSCKN IYRPDKFLQC VKNPEDSSCT SEIHSHHHH
Tag:	His-tag
Predicted MW:	31.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 50 mM MES (pH 5.0) containing 100 mM NaCl, 10% glycerol
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001766</a>
Locus ID:	952
UniProt ID:	<a href="#">P28907</a> , <a href="#">B4E006</a>
Cytogenetics:	4p15.32
Synonyms:	ADPRC 1; ADPRC1



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**Summary:**

The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Protein Families:**

Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

**Protein Pathways:**

Calcium signaling pathway, Hematopoietic cell lineage, Metabolic pathways, Nicotinate and nicotinamide metabolism

**Product images:**