

## Product datasheet for AR52066PU-S

## Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

EU: info-de@origene.com CN: techsupport@origene.cn

## 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 VKYTEIHPEM RHVDCQSVWD AFKGAFISKH PCNITEEDYQ PLMKLGTQTV PCNKILLWSR IKDLAHQFTQ VQRDMFTLED TLLGYLADDL TWCGEFNTSK INYQSCPDWR KDCSNNPVSV FWKTVSRRFA EAACDVVHVM LNGSRSKIFD

KNSTFGSVEV HNLQPEKVQT LEAWVIHGGR EDSRDLCQDP TIKELESIIS KRNIQFSCKN IYRPDKFLQC

VKNPEDSSCT SEIHHHHHH

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: NP 001766

Locus ID: 952

UniProt ID: <u>P28907</u>, <u>B4E006</u>

**Cytogenetics:** 4p15.32

Synonyms: ADPRC 1; ADPRC1





**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]

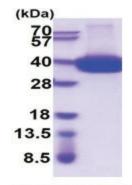
**Protein Families:** 

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:**



15% SDS-PAGE (3ug)