



Anti-ARHGEF3 (aa 33-142) polyclonal antibody (DPAB-DC2086)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Immunogen	ARHGEF3 (NP_062455, 33 a.a. ~ 142 a.a) partial recombinant protein with GST tag. The sequence is EPSNKRVKPLSRVTSLANLIPPVKATPLKRFSQTLQRSISFRSESRPDILAPRPWSR ^{NAA} PSSTKRRDSK ^{LW} SE ^{TFD} VC ^{VN} Q ^{ML} TSKEIKRQEAIFEL ^{SQ} GEED ^{LIED} LK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ARHGEF3 Rho guanine nucleotide exchange factor (GEF) 3 [Homo sapiens (human)]
Official Symbol	ARHGEF3
Synonyms	ARHGEF3; Rho guanine nucleotide exchange factor (GEF) 3; GEF3; STA3; XPLN; rho guanine nucleotide exchange factor 3; RhoGEF protein; 59.8 kDA protein; exchange factor found in platelets and leukemic and neuronal tissues, XPLN;
Entrez Gene ID	50650
Protein Refseq	NP_001122087
UniProt ID	Q9NR81
Chromosome Location	3p14.3
Pathway	Cell death signalling via NRAGE, NRIF and NADE; GPCR downstream signaling; Regulation of RhoA activity; Signal Transduction
Function	Rho guanyl-nucleotide exchange factor activity;