



Human ARHGEF9 peptide (DAG-P1388)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a Rho-like GTPase that switches between the active (GTP-bound) state and inactive (GDP-bound) state to regulate CDC42 and other genes. Defects in this gene are a cause of startle disease with epilepsy (STHEE), also known as hyperekplexia with epilepsy. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010]
Specificity	Detected in brain. Detected at low levels in heart.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 DH (DBL-homology) domain.Contains 1 PH domain.Contains 1 SH3 domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ARHGEF9 Cdc42 guanine nucleotide exchange factor (GEF) 9 [Homo sapiens (human)]
Official Symbol	ARHGEF9
Synonyms	ARHGEF9; Cdc42 guanine nucleotide exchange factor (GEF) 9; PEM2; EIEE8; PEM-2; HPEM-2; COLLYBISTIN; rho guanine nucleotide exchange factor 9; PEM-2 homolog; hPEM-2 collybistin; rac/Cdc42 guanine nucleotide exchange factor 9;

Entrez Gene ID	23229
mRNA Refseq	NM_001173479.1
Protein Refseq	NP_001166950.1
UniProt ID	O43307
Chromosome Location	Xq11.1
Pathway	Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GABA A receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Ion channel transport, organism-specific biosystem; Ligand-gated ion channel transport, organism-specific biosystem; NRAGE signals death through JNK, organism-specific biosystem; Neuronal Sys
Function	Rho guanyl-nucleotide exchange factor activity;