



# Human DOCK3 peptide (DAG-P0404)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene is specifically expressed in the central nervous system (CNS). It encodes a member of the DOCK (dedicator of cytokinesis) family of guanine nucleotide exchange factors (GEFs). This protein, dedicator of cytokinesis 3 (DOCK3), is also known as modifier of cell adhesion (MOCA) and presenilin-binding protein (PBP). The DOCK3 and DOCK1, -2 and -4 share several conserved amino acids in their DHR-2 (DOCK homology region 2) domains that are required for GEF activity, and bind directly to WAVE proteins [Wiskott-Aldrich syndrome protein (WASP) family Verprolin-homologous proteins] via their DHR-1 domains. The DOCK3 induces axonal outgrowth in CNS by stimulating membrane recruitment of the WAVE complex and activating the small G protein Rac1. This gene is associated with an attention deficit hyperactivity disorder-like phenotype by a complex chromosomal rearrangement. [provided by RefSeq, Aug 2010]
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<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">DOCK3 dedicator of cytokinesis 3 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	DOCK3
<b>Synonyms</b>	DOCK3; dedicator of cytokinesis 3; PBP; MOCA; dedicator of cytokinesis protein 3; modifier of cell adhesion; presenilin-binding protein;

<b>Entrez Gene ID</b>	<a href="#">1795</a>
<b>mRNA Refseq</b>	<a href="#">NM_004947.4</a>
<b>Protein Refseq</b>	<a href="#">NP_004938.1</a>
<b>UniProt ID</b>	Q8IZD9
<b>Chromosome Location</b>	3p21.2
<b>Pathway</b>	BDNF signaling pathway, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem;
<b>Function</b>	SH3 domain binding; guanyl-nucleotide exchange factor activity; protein binding;