

Product datasheet for PH309050

CCDC25 (NM_018246) Human Mass Spec Standard

Product data:

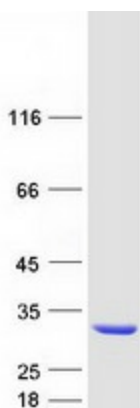
Product Type:	Mass Spec Standards
Description:	CCDC25 MS Standard C13 and N15-labeled recombinant protein (NP_060716)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209050
Predicted MW:	24.3 kDa
Protein Sequence:	>RC209050 representing NM_018246 Red=Cloning site Green=Tags(s) MVFYFTSSSVNSSAYTIYMGKDKYENEDLIKHWPEDIWFHVDKLSSAHVYLRHLKGENIEDIPKEVLMD CAHLVKANSIQGCKMNNVNVVYTPWSNLKKTADMDVGQIGFHRQKDVKIVTVEKKVNEILNRLEKTKVER FPDLAAEKECRDREERNEKKAQIQEMKKREKEEMKKKREMDLRSYSSLMKVENMSSNQDGNDSDEFM TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_060716
RefSeq Size:	3653
RefSeq ORF:	624
Locus ID:	55246
UniProt ID:	Q86WR0
Cytogenetics:	8p21.1



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Summary:

Transmembrane receptor that senses neutrophil extracellular traps (NETs) and triggers the ILK-PARVB pathway to enhance cell motility (PubMed:32528174). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (PubMed:32528174). Formation of NETs is also associated with cancer metastasis, NET-DNA acting as a chemotactic factor to attract cancer cells (PubMed:32528174). Specifically binds NETs on its extracellular region, in particular the 8-OHdG-enriched DNA present in NETs, and recruits ILK, initiating the ILK-PARVB cascade to induce cytoskeleton rearrangement and directional migration of cells (PubMed:32528174). In the context of cancer, promotes cancer metastasis by sensing NETs and promoting migration of tumor cells (PubMed:32528174). [UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified CCDC25 protein (Cat# [TP309050]). The protein was produced from HEK293T cells transfected with CCDC25 cDNA clone (Cat# [RC209050]) using MegaTran 2.0 (Cat# [TT210002]).