

Recombinant Human AFDN Protein

Cat. No. AFDN-820H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AFDN (residues 1-141) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-141 a.a.
Description	The amino terminus of Af6 was identified as the Rasbinding site. Additionally to the Ras-binding Af6 also binds Rap. ZO-1, a protein involved in the formation of tight junctions, also binds to Af6 close to the amino terminus thereby competing with Ras binding. These data suggest a participation of Af6 in the regulation of cell-cell contacts via a Ras-modulated interaction with ZO-1. In contrast to the well characterized effectors Raf, RalGEF, and PI(3)kinase, Af6 is a protein with no enzymatic function. It seems to serve as a scaffolding component for protein complexes. This would represent a new type of Ras effector because Ras binding in this case does not lead to the activation of the enzymatic activity of the effector.
Form	25 mM HEPES pH 7.5, 50 mM NaCl, 1 mM EDTA and 50% glycerol
Purity	> 95 % (SDS-PAGE)
Storage	Store at -20 centigrade, avoid freeze/thaw cycles.

GENE INFORMATION

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Gene Name	AFDN afadin, adherens junction formation factor [Homo sapiens (human)]
Official Symbol	AFDN
Synonyms	AF6; MLLT4; MLL-AF6; I-afadin
Gene ID	4301
mRNA Refseq	NM_001207008.1
Protein Refseq	NP_001193937.1
MIM	159559
UniProt ID	P55196

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