

Recombinant Human AFF1 Protein, His tagged

Cat. No. AFF1-406H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AFF1 Protein with His tag was expressed in Wheat germ cell free in vitro.
Species	Human
Source	Wheat germ cell free in vitro
ProteinLength	71-170 aa
Description	This gene encodes a member of the AF4/ lymphoid nuclear protein related to the Fragile X E syndrome (FRAXE) family of proteins, which have been implicated in human childhood lymphoblastic leukemia, fragile chromosome X intellectual disability, and ataxia. It is the prevalent mixed-lineage leukemia fusion gene associated with spontaneous acute lymphoblastic leukemia. Members of this family have three conserved domains: an N-terminal homology domain, an AF4/ lymphoid nuclear protein domain, and a C-terminal homology domain. The protein functions as a regulator of RNA polymerase II-mediated transcription through elongation and chromatin remodeling functions. Through RNA interference screens, this gene has been shown to promote the expression of CD133, a plasma membrane glycoprotein required for leukemia cell survival. Alternative splicing results in multiple transcript variants.
Form	Sterile 50mM Tris, pH 8.0, 10mM Reduced Glutathione
Molecular Mass	12 kDa

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AASequence	MHHHHHHHHHHLSTKSHTHRLDASENRLGKPKYPLIPDKGSSIPSSSFHTSVHHQSI HTPASGPLSVGNISHNPKMAQPRTEPMPSLHAKSCGPPDSQHLTQDRLGQEGFG
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.22 mg/mL by Bradford

GENE INFORMATION

Gene Name	AFF1 AF4/FMR2 family, member 1 [Homo sapiens (human)]
Official Symbol	AFF1
Synonyms	AFF1; AF4/FMR2 family, member 1; MLLT2, myeloid/lymphoid or mixed lineage leukemia (trithorax (Drosophila) homolog); translocated to, 2, PBM1, pre B cell monocytic leukemia partner 1; AF4/FMR2 family member 1; AF 4; AF4; protein AF-4; proto-oncogene AF4; pre-B-cell monocytic leukemia partner 1; ALL1-fused gene from chromosome 4 protein; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 2; PBM1; MLLT2; MGC134969;
Gene ID	4299
mRNA Refseq	NM_001166693
Protein Refseq	NP_001160165

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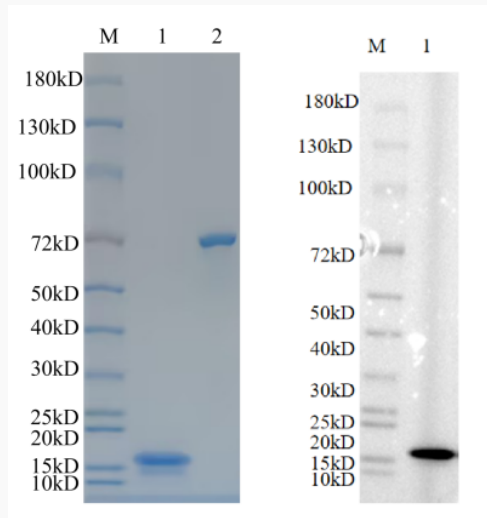
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MIM 159557

UniProt ID P51825

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified AFF1. 1. AFF1: 1 μ g 2. BSA: 1 μ g

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