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Datasheet for ABIN7199426 FOLR2 Protein (His-Avi Tag,Biotin)



Overview	
Quantity:	200 µg
Target:	FOLR2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOLR2 protein is labelled with His-Avi Tag,Biotin.
Product Details	
Purpose:	Biotinylated Human FOLR2 Protein, His,Avitag™
Sequence:	Thr 17 - His 228
Characteristics:	Biotinylated Human FOLR2, His,Avitag (FO2-H82E8) is expressed from human 293 cells (HEK293). It contains AA Thr 17 - His 228 (Accession # P14207-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	FOLR2
Alternative Name:	FOLR2 (FOLR2 Products)
Background:	Synonyms: FOLR2,BETA-HFR,FBP,PL-1,FR-BETA,FR-P3,FBP, Description: Folate receptor beta is also known as Folate receptor 2, FBP, FOLR2, BETA-HFR,
	FBP/PL-1, FR-BETA, FR-P3, and is a member of the folate receptor (FOLR) family. and mediate

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	delivery of 5-methyltetrahydrofolate to the interior of cells. This protein has a 68 % and 79 %
	sequence homology with the FOLR1 and FOLR3 proteins, respectively. The FOLR2 protein was
	originally thought to exist only in placenta, but is also detected in spleen, bone marrow, and
	thymus. FOLR2 is predominantly expressed in placenta, cells of the neutrophilic lineage, and
	some CD34+ hematopoietic progenitor cells. It is upregulated on myeloid leukemias, head and
	neck squamous cell carcinomas, and several nonepithelial cancers. It is also upregulated on
	macrophages and monocytes at chronic inflammatory sites including rheumatoid arthritis
	synovium and glioblastoma. FOLR2 is a marker for macrophages generated in the presence of
	M-CSF, but not GM-CSF. Its expression correlates with increased folate uptake ability. Folate
	conjugates of therapeutic drugs are a potential immunotherapy tool to target tumor-associated
	macrophages.
Molecular Weight:	28.2 kDa
Pathways:	Dicarboxylic Acid Transport
Application Details	
Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The
	protein has a calculated MW of 28.2 kDa. The protein migrates as 30-40 kDa under reducing (R)
	condition due to glycosylation.
Comment:	Ready-to-use Avitag™ biotinylated protein:
	The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli
	biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized

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Handling	
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C

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