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Datasheet for ABIN2666762 IL-32 alpha Protein (AA 2-131, N-Term)



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Quantity:	10 µg
Target:	IL-32 alpha (IL32A)
Protein Characteristics:	AA 2-131, N-Term
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)
Product Details	
Purity:	> 90 %, as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per μg cytokine as determined by the LAL method.
Target Details	
Target:	IL-32 alpha (IL32A)
Alternative Name:	IL-32 alpha (IL32A Products)
Background:	IL-32 is a proinflammatory cytokine with both extracellular and intracellular functions. IL-32 was originally identified as a natural killer transcript 4 (NK4). Several isoforms of IL-32 have been identified, and IL-32α is the most abundant. Overexpression of IL-32α in myeloid cell lines enhances natural killer cell-mediated killing, and IL-32 expression can be induced by IL-18 in NK
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	cells. IL-32a can be released by some epithelial cell lines in response to INF- γ , TNF-a, and IL-1 β .
	IL-32 can induce production of various cytokines including TNF-a, IL-1β, IL-8 and IL-6 through
	NF- κ B and p38 MAPK activation. IL-32 works synergistically with IL-17 to induce osteoclast
	differentiation. Recombinant IL-32 α can induce macrophage apoptosis in the presence of M.
	tuberculosis. Intracellular IL-32 α increases IL-6 production by interacting with PKC ϵ and STAT3,
	which not only increases STAT3 phosphorylation but also enhances STAT3 recruitment to the
	IL-6 promoter. IL-32 can synergize with NOD1 and NOD2 ligands to induce IL-1 eta and IL-6
	through the caspase I-dependent pathway. IL-32 has been associated with pathogenesis of
	many chronic inflammatory diseases including rheumatoid arthritis and ulcerative colitis. IL-32
	is highly expressed in various cancers including gastric and pancreatic cancer. Studies have
	suggested that IL-32 can function as an angiogenic factor. In addition, IL-32a expression in liver
	cells is increased following progression of many liver diseases. Also, IL-32 is involved in the
	immune response to many viruses including HIV, influenza A, hepatitis B, and papillomavirus.
Molecular Weight:	The 131 amino acid recombinant protein has a predicted molecular mass of approximately
	14.9 kDa. The DTT-reduced and non-reduced protein migrates at approximately 20 kDa by SDS-
	PAGE. The predicted N-terminal amino acid is Methione.

Application Details

Optimal working dilution should be determined by the investigator.	
Biological activity: The ED50 is 2 - 8 µg/ml, corresponding to a specific activity 1.25 - 5 x 102	
units/mg, as determined by a dose-dependent induction of human TNF- α in PMA-stimulated	
THP-1 cells.	
For Research Use only	

Handling

Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in sterile buffer (PBS, HPBS, DPBS, and EBSS) containing carrier protein such as 1 % BSA or HSA. After dilution, the cytokine can be stored between 2 °C and 8 °C for one month or from -20 °C to -70 °C for up to 3 months.
Buffer:	0.22 μm filtered protein solution is in PBS, pH 7.4, with 10 mM DTT.
Preservative:	Dithiothreitol (DTT)

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Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for three months, at -20°C for six months, or at -70°C for one year.