

Interleukin 32 (IL32) Active Protein | IL32 active protein

Active Interleukin 32 (IL32)

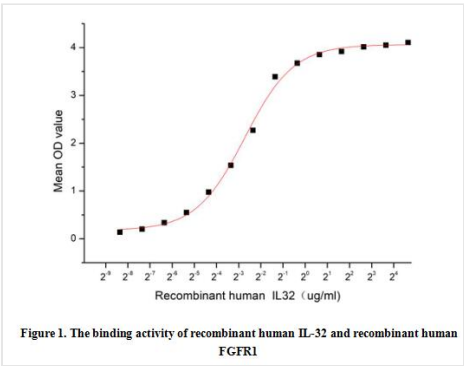
CATALOG # AAA161861	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interleukin 32 (IL32); Active Interleukin 32 (IL32); Interleukin 32; NK4; TAIF; TAIFb; TAIFd; Natural Killer Cell Transcript 4; Natural killer cells protein 4; Tumor necrosis factor alpha-inducing factor4; IL32 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 80% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Lys13 1
Applicable Applications for IL32 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4.5
Research Area	Cytokine, Infection immunity, Bone metabolism
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

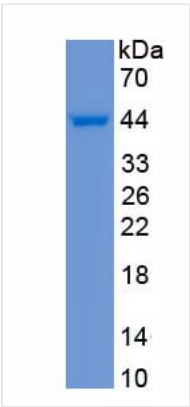


Bioactivity

Interleukin-32 (IL-32) is an interleukin cytokine usually linked to inflammation. The IL-32 transcript is expressed in various human tissues and organs such as the spleen, thymus, leukocyte, lung, small intestine, colon, prostate, heart, placenta, liver, muscle, kidney, pancreas, and brain. Cytokines are critical components of cell signaling pathways that are involved in the regulation of cell growth, metabolism, hormone signaling, immune regulation and a variety of other physiological functions. FGFR1 has been identified as an interactor of IL-32, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IL-32 and recombinant human FGFR1. Briefly, IL-32 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGFR1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IL-32 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human IL-32 and recombinant human FGFR1 was shown in Figure 1, the EC50 for this effect is 0.15 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for IL32 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	61658642
NCBI GeneID	9235
NCBI Accession #	NP_001012736.1
NCBI GenBank Nucleotide #	NM_001012718.1
UniProt Accession #	P24001; Q5VFH7; Q5VFH8; Q8WV38; Q96GK9; A6NNM0; A8MPX0; B4DJM1; D3DUB0; D3DUB2
Molecular Weight	26,676 Da
NCBI Official Full Name	interleukin-32 isoform B
NCBI Official Synonym Full Names	interleukin 32
NCBI Official Symbol	IL32
NCBI Official Synonym Symbols	NK4; TAIF; TAIFa; TAIFb; TAIFc; TAIFd; IL-32beta; IL-32alpha; IL-32delta; IL-32gamma
NCBI Protein Information	interleukin-32; interleukin-32 eta; interleukin-32 small; interleukin-32 theta; natural killer cells protein 4; natural killer cell transcript 4; tumor necrosis factor alpha-inducing factor
UniProt Protein Name	Interleukin-32
UniProt Gene Name	IL32
UniProt Synonym Gene Names	NK4; TAIF; IL-32

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interleukin-32-il32/161861>