

Interferon Regulatory Factor 8 (IRF8) Active Protein | IRF8 active protein

Active Interferon Regulatory Factor 8 (IRF8)

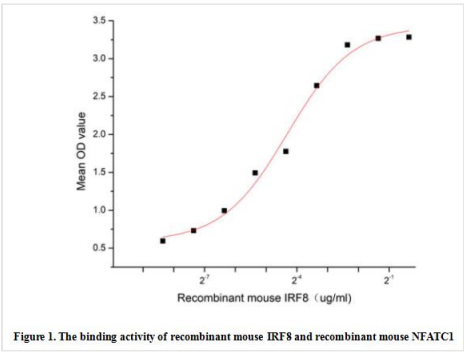
CATALOG # AAA161858	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interferon Regulatory Factor 8 (IRF8); Active Interferon Regulatory Factor 8 (IRF8); Interferon Regulatory Factor 8; H-ICSBP; ICS-BP; ICSBP1; Interferon Consensus Sequence-Binding Protein 14; IRF8 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Arg327
Applicable Applications for IRF8 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.9
Research Area	Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

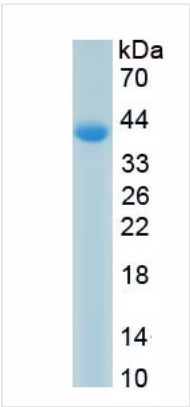


Bioactivity

Interferon regulatory factor 8 (IRF8), also known as interferon consensus sequence-binding protein, is a transcription factor that plays central roles in the regulation of myeloid cell fate. In both mice and humans, IRF8 is required for the differentiation of most monocyte and dendritic cell subsets, but suppresses neutrophil production. IRF8 can both act as a transcriptional activator or repressor, and it acts as a transcriptional repressor of osteoclast differentiation factors such as NFATC1 and EEIG1. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse IRF8 and recombinant mouse NFATC1. Briefly, IRF8 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to NFATC1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IRF8 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 450/630 nm immediately. The binding activity of recombinant mouse IRF8 and recombinant mouse NFATC1 was shown in Figure 1, the EC50 for this effect is 0.05 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for IRF8 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6680339
NCBI GeneID	15900
NCBI Accession #	NP_032346.1
NCBI GenBank Nucleotide #	NM_008320.4
UniProt Accession #	P23611
Molecular Weight	48,237 Da
NCBI Official Full Name	interferon regulatory factor 8
NCBI Official Synonym Full Names	interferon regulatory factor 8
NCBI Official Symbol	Irf8
NCBI Official Synonym Symbols	Myls; ICSBP; IRF-8; Icsbp1; AI893568
NCBI Protein Information	interferon regulatory factor 8; interferon consensus sequence binding protein 1; interferon consensus sequence-binding protein
UniProt Protein Name	Interferon regulatory factor 8
UniProt Gene Name	Irf8
UniProt Synonym Gene Names	Icsbp; Icsbp1; IRF-8; ICSBP
UniProt Entry Name	IRF8_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interferon-regulatory-factor-8-irf8/161858>