

Human IL-32 antibody

Catalog Number: ATGA0170

PRODUCT INFORMATION

Catalog number

ATGA0170

Clone No.

AT2F9

Product type

Monoclonal Antibody

UnitProt No.

P24001

NCBI Accession No.

NP_001012651

Alternative Names

Interleukin 32, Natural killer cells protein 4, Natural killer cell transcript 4, NK4, Tumor necrosis factor alpha-inducing factor, TAIF, TAIFb, TAIFd

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human IL32 (1-131aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

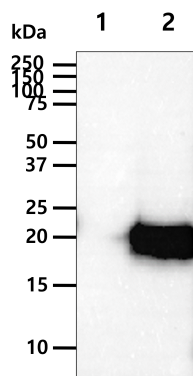
The gene encoding IL32 is located on human chromosome 16p13. 3 and is organized into eight exons. IL32 is mainly expressed in natural killer cells, T cells, epithelial cells, and blood monocytes. It can induce the proinflammatory cytokines TNFalpha and IL1beta in murine peritoneal macrophages as well as in phorbol ester-differentiated human THP1 cells. In the inflamed lesions of chronic pancreas, the ductal expression of IL32 was markedly increased. Pancreatic duct cells are the local source of IL32, and IL32 may play an important role in inflammatory responses and pancreatic cancer growth. Recently, a synergism between IL32 and other well characterized players in innate immunity has been documented.

General References

- Nishida A, et al. (2009) J Biol Chem, 284(26):17868-76.
- Kobayashi H, et al. (2009) Cytokine, 46(3):351-8.
- Mabilleau G, et al. (2009) PLoS One, 4(1):e4173.

DATA

Western blot analysis (WB)

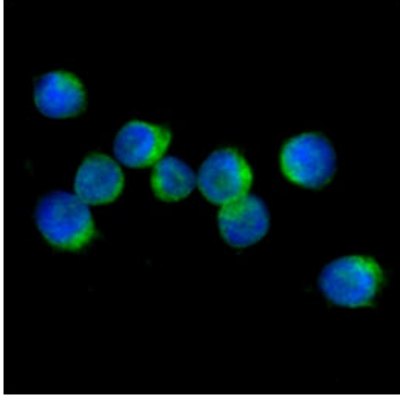


The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IL-32 alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: IL-32 alpha Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of IL32 in Jurkat cells. The cell was stained with ATGA0170 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).