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Human TLR7 antibody

Catalog Number: ATGA0530

PRODUCT INFORMATION

Catalog number

ATGA0530

Clone No.

4F4

Product type

Monoclonal antibody

UnitProt No.

Q9NYK1

NCBI Accession No.

NP 057646

Alternative Names

toll-like receptor 7, PRO285, UNQ248, tlr 7

Additional Information

This product was produced from tissue culture supernatant.

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 TLR7 (451-500aa) purified from E. coli.

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Usage

The antibody has been tested by ELISA, Western blot and FACS 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

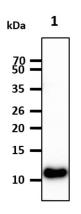
TLR7 is one of toll-like receptors which are type I transmembrane proteins involved in innate immunity byrecognizing microbial conserved structures. These proteins are characterized by multiple copies of leucine richrepeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain, and act through adaptormolecules such as MyD88 and TIRAP to activate various kinases and transcription factors. Human TLR7(hTLR7) is predominantly expressed in lung, placenta and spleen and hTLR7, 8 genes are located on the sexchromosome X. hTLR7 may play an important role in detecting and combating viral infections.

General References

Lee J., et al. (2003) Proc. Natl. Acad. Sci. USA. 100:6646-6651. Crozat K., et al. (2004) Proc. Natl. Acad. Sci. USA. 101:6835-6836. Muzio M., et al. (1998) J. Exp. Med. 187:2097-2101. Horng T., et al. (2002) Nature 420:329-333.

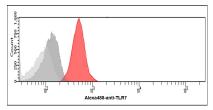
DATA

Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TLR7 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human TLR7 protein

Flow cytometry (FACS)



Flow cytometry analysis of TLR7 in THP-1 cells. The cell was stained with ATGA0530 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

