

Human TLR7 antibody

Catalog Number: ATR0601

PRODUCT INFORMATION

Catalog number

ATR0601

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

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-G affinity chromatography

Application

ELISA, ICC/IF, FACS

Usage

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

Storage

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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

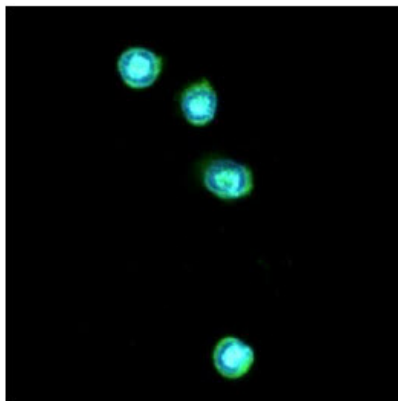
TLR7 is one of toll-like receptors which are type I transmembrane proteins involved in innate immunity by recognizing microbial conserved structures. These proteins are characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain, and act through adaptor molecules 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 sex chromosome 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.
- Hornig T., et al. (2002) Nature 420, 329-333.

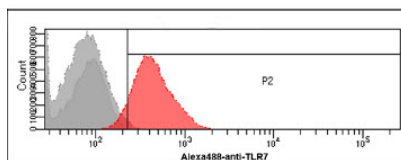
DATA

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of TLR7 in THP-1 cells. The cell was stained with ATR0601 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of TLR7 in THP-1 cells. The cell was stained with ATR0601 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).