

TLR7 Rabbit mAb

Catalog No.: A29299 **Recombinant**

Basic Information

Observed MW

70 kDa/140 kDa

Calculated MW

122 kDa

Category

Primary antibody

Applications

WB,IP,ELISA

Cross-Reactivity

Mouse

CloneNo number

ARC4041

Background

Enables siRNA binding activity and single-stranded RNA binding activity. Involved in several processes, including intracellular signal transduction; positive regulation of macromolecule biosynthetic process; and response to virus. Acts upstream of or within positive regulation of interleukin-6 production; positive regulation of macrophage cytokine production; and regulation of protein phosphorylation. Located in cytoplasmic vesicle; endoplasmic reticulum; and lysosome. Is expressed in brain and liver. Used to study systemic lupus erythematosus. Human ortholog(s) of this gene implicated in COVID-19 and X-Linked immunodeficiency 74. Orthologous to human TLR7 (toll like receptor 7).

Recommended Dilutions

WB 1:10000 - 1:50000**IP** 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Contact

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Immunogen Information

Gene ID

170743

Swiss Prot

P58681

Immunogen

This information is considered to be commercially sensitive.

Synonyms

TLR7

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

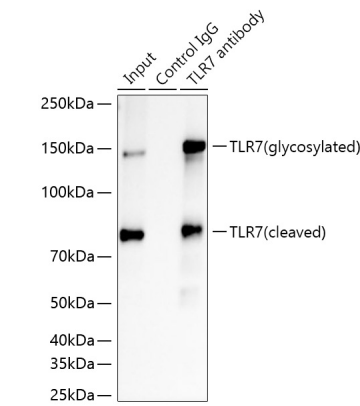
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

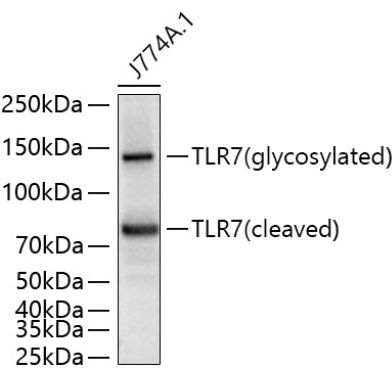


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Validation Data



Immunoprecipitation of TLR7 from 300 µg extracts of J774A.1 cells was performed using 1.5 µg of TLR7 Rabbit mAb (A29299). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TLR7 Rabbit mAb (A29299) at a dilution of 1:8000.



Western blot analysis of lysates from J774A.1 cells using TLR7 Rabbit mAb (A29299) at 1:25000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.