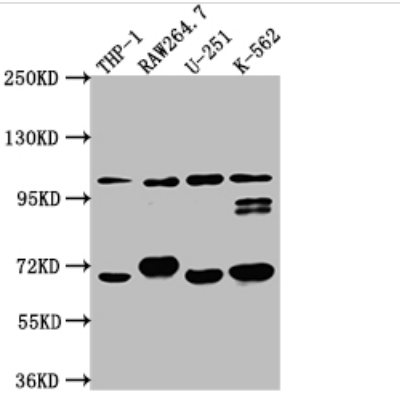
TLR5 Recombinant Monoclonal Antibody

Product Code	CSB-RA545516A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O60602
Immunogen	A synthesized peptide derived from human TLR5
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	Participates in the innate immune response to microbial agents. Mediates detection of bacterial flagellins. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	TLR5
Clone No.	10D8

Image



Western Blot
Positive WB detected in: THP-1 whole cell lysate, RAW264.7 whole cell lysate, U-251 whole cell lysate, K562 whole cell lysate
All lanes: TLR5 antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 98 kDa
Observed band size: 98 kDa

Description

TLR5 is expressed constitutively in epithelial cells and immune cells, such as monocytes and immature DCs. TLR5 is preferentially expressed on the apical side of respiratory epithelia in both mice and humans. Thus, TLR5 can induce

early signaling dedicated to protective innate immune responses against respiratory infection. Mammalian TLR5 binds flagellin as an indicator of bacterial infection. TLR5 recognizes the conserved domain in flagellin monomers and triggers proinflammatory responses. TLR5 plays a crucial role in both immune homeostasis and protection against bacterial infection in mammals, birds, amphibians, fish, and reptiles.

The generation of this recombinant TLR5 antibody occurs in a series of steps: immunization, splenocytes & PBMC, single B cell sorting, mRNA extraction, RT-PCR & insert vector, expression, ELISA validation. And ELISA, WB was carried out Every step was performed under strict standards to ensure the researchers can have a recombinant TLR5 antibody with premium quality.