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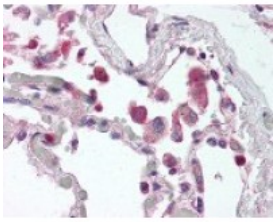
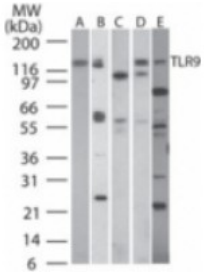
# TLR9 Antibody [26C593.2]

CATALOG NUMBER: 49-862



Immunohistochemistry staining of TLR9 in lung tissue using TLR9 Monoclonal Antibody.




## Specifications

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|---|---|
| **SPECIES REACTIVITY:** | Gibbon, Gorilla, Human, Mouse, Orangutan, Rat |
| **TESTED APPLICATIONS:** | FACS, IHC, WB |
| **APPLICATIONS:** | TLR9 antibody can be used in Western Blot starting at 0.5 - 2 ug/mL, immunohistochemistry starting at 5 ug/mL, and immunoprecipitation. |
| **USER NOTE:** | Optimal dilutions for each application to be determined by the researcher. |
| **IMMUNOGEN:** | TLR9 monoclonal antibody was raised against amino acids 268 - 284 of TLR9 (Human). |
| **HOST SPECIES:** | Mouse |

## Properties

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|---|---|
| **PURIFICATION:** | Protein G Column |
| **PHYSICAL STATE:** | Liquid |
| **BUFFER:** | PBS, 0.05% BSA, 0.05% sodium azide. |
| **STORAGE CONDITIONS:** | Store TLR9 antibody at 4 ˚C or -20 ˚C. As with all antibodies avoid freeze/thaw cycles. |
| **CLONALITY:** | Monoclonal |
| **ISOTYPE:** | IgG1,k |
| **CONJUGATE:** | Unconjugated |

## Additional Info

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|---|---|
| **ALTERNATE NAMES:** | TLR9, CD289, CD289 antigen, Scri2a, Toll-like receptor 9 |
| **ACCESSION NO.:** | Q9NR96 |
| **PROTEIN GI NO.:** | 20140872 |
| **OFFICIAL SYMBOL:** | TLR9 |
| **GENE ID:** | 54106 |

## Background

| | |
|---|---|
| **BACKGROUND:** | The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by |

multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. Ten human homologs of TLRs (TLR1-10) have been described. By using a BLAST search, Hemmi et al., 2000 have identified and subsequently isolated a cDNA coding for TLR9. Gene knockout experiments suggest that TLR9 acts as a receptor for unmethylated CpG dinucleotides in the bacterial DNA. Human and mouse TLR9 share an overall amino-acid identity of 75.5%. TLR9 is highly expressed in spleen.

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