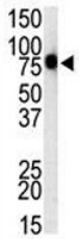
TLR1 Antibody (F44368)

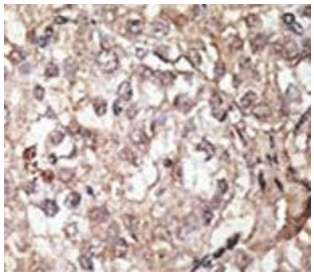
Catalog No.	Formulation	Size
F44368-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F44368-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9EPQ1
Localization	Cell membrane, cytoplasm
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This TLR1 antibody is available for research use only.



Western blot analysis of TLR1 antibody and mouse spleen cell lysate. Predicted molecular weight ~90 kDa.



IHC analysis of FFPE human hepatocarcinoma tissue stained with the TLR1 antibody

Description

Higher animals establish host defense by orchestrating innate and adaptive immunity. This is mediated by professional antigen presenting cells, i.e. dendritic cells (DCs). DCs can incorporate pathogens, produce a variety of cytokines, maturate, and present pathogen-derived peptides to T cells, thereby inducing T cell activation and differentiation. These responses are triggered by microbial recognition through type I transmembrane proteins, Toll-like receptors (TLRs) on DCs. TLRs consist of ten members and each TLR is involved in recognizing a variety of microorganism-derived molecular structures. TLR ligands include cell wall components, proteins, nucleic acids, and synthetic chemical compounds, all of which can activate DCs as immune adjuvants. Each TLR can activate DCs in a similar, but distinct manner. For example, TLRs can be divided into subgroups according to their type I interferon (IFN) inducing ability. TLR2 cannot induce IFN-alpha or IFN-beta, but TLR4 can lead to IFN-beta production. Meanwhile, TLR3, TLR7, and TLR9 can induce both IFN-alpha and IFN-beta. Recent evidences suggest that cytoplamic adapters for TLRs are especially crucial for this functional heterogeneity.

Application Notes

Titration of the TLR1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 764-795 from the mouse protein was used as the immunogen for this TLR1 antibody.

Storage

Aliquot the TLR1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.