

Monoclonal Anti-human, mouse, rat, dog, swine, sheep TLR3/CD283

Product reference: DDX0472

Description

The Toll-like receptor (TLR) family has recently emerged as key for sensing microbial infections and triggering inflammatory and innate responses. Ten TLRs have been cloned in humans. They share structural and functional homologies, as they are all able to detect micro-organisms through direct recognition of conserved Pathogen Associated Molecular Patterns (PAMPs) such as bacterial LPS or viral dsRNA. Ligand recognition is mediated through the C-terminal Leucine Rich Repeat region, while signalling involves the N-terminal Toll/Interleukin-1 Receptor (TIR) domain. TLR3 has been identified as a receptor for dsRNA. Unlike other TLRs, the cytoplasmic tail of TLR3 does not contain a conserved proline residue, whose mutation confers LPS unresponsiveness in C3H/HeJ mice. TLR3 is the only TLR that signals exclusively through the TIR-containing adaptor TRIF (TIR-containing adaptor inducing IFN β), which activates the transcription factors IRF3 and NF κ B, and triggers type I interferon secretion. TLR3 is expressed in various cell types, such as fibroblasts, dendritic cells (DCs), or NK cells. While TLR3 is expressed at the cell surface in fibroblasts, it is mostly found in intracytoplasmic vesicles in DCs. (*Akira S et al, 2004, Nat Rev Immunol, 4:499-511; Bonnefond-Rebeix C. et al., 2007, Veterinary Immunol and Immunopath, 118, 134*).

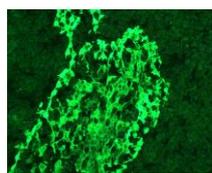
Clone: 722E2.01
Species: mouse
Specificity: human TLR3 (intracytoplasmic)
Immunogen: human recombinant TLR3 in eukaryotic cells (pUNO-hTLR3)
Species cross- reactivity: rat, dog, mouse, pig, sheep
Isotype: IgM
Purification: QMA Hyper D ion exchange chromatography
Formulation/size: **Purified:** 100 μ g in 200 μ l / 50 μ g in 100 μ l Tris-NaCl pH 8
Coupled: 100 μ g in 200 μ l / 50 μ g in 100 μ l PBS 50% glycerol

Available formats:

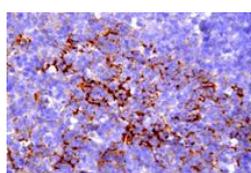
Reference		Format	Application tested
50 μ g	100 μ g		
DDX0472P-50	DDX0472P-100	Purified	Intracyto Flow cytometry, IHC, WB
DDX0472A488-50	DDX0472A488-100	Alexa-fluor® 488	Intracyto Flow cytometry, IF
DDX0472A546-50	DDX0472A546-100	Alexa- fluor® 546	IF
DDX0472A647-50	DDX0472A647-100	Alexa- fluor® 647	Intracyto Flow cytometry
DDX0472B-50	DDX0472B-100	Biotin	IHC, WB

Other clones available on request

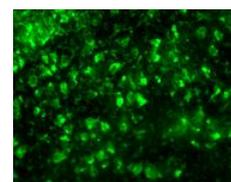
Applications : Flow cytometry, IHC, IF



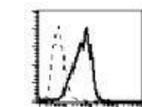
IF on human tonsil cryosection



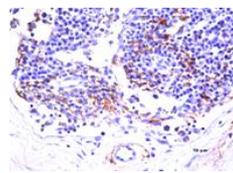
IHC on dog tonsil cryosection



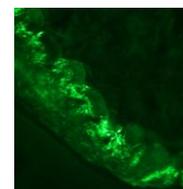
IF on rat brain cryosection



Intracellular FACS staining
of
human monocyte-derived DCs



IHC on dog mandibular gland



IF on mouse tongue cryosection

Usage recommendation: *This monoclonal antibody may be used between 5-20 μ g/ml.
*Optimal dilution should be determined by each laboratory for each application.
*Coupled antibody: to maintain RT before using.

Antibody storage conditions: -20°C. **KEEP CONTENTS STERILE: no preservative.**
Purified antibodies: avoid repeated freeze/thaw cycles.
Coupled antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only