

## Monoclonal Anti-human, mouse, rat, dog TLR3/CD283

### Product reference: DDX0475

#### 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 lipopolysaccharide (LPS) or viral double stranded RNA (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 $\beta$ ), which activates the transcription factors IRF3 and NF $\kappa$ 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 ; Salaun B *et al.*, 2006 *J Immunol*, 176: 4894 ; Bonnefont C *thesis*, 2006).

<b>Clone:</b>	<b>716G10.15</b>
<b>Species / Isotype:</b>	mouse, IgM
<b>Specificity:</b>	human TLR3 (intracytoplasmic)
<b>Immunogen:</b>	human recombinant TLR3 in eukaryotic cells (pUNO-hTLR3)
<b>Species cross- reactivity:</b>	rat, mouse, dog, sheep
<b>Purification:</b>	QMA hyper D ion exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l Tris-NaCl pH 8 <b>Coupled:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l PBS 50% glycerol

#### Available formats:

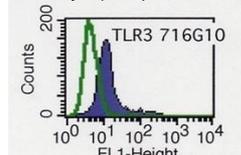
Reference		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0475P-50	DDX0475P-100	Purified	IHC frozen section, intracyto, FC mono-DCs, IHC Bouin paraffin
DDX0475A488-50	DDX0475A488-100	Alexa-Fluor® 488	IF
DDX0475A546-50	DDX0475A546-100	Alexa-Fluor® 546	IF
DDX0475A647-50	DDX0475A647-100	Alexa-Fluor® 647	intracyto Flow Cytometry
DDX0475B-50	DDX0475B-100	Biotin	IHC Bouin paraffin, IHC frozen section

#### *Other clones available on request*

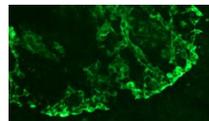
**Applications tested:** IF, Intracellular flow cytometry



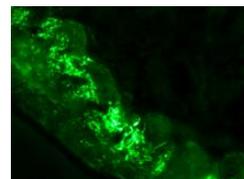
IF on rat footpad cryosection



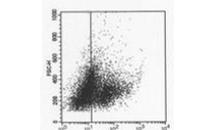
Intracellular FACS on a canine line



IF on human tonsil cryosection



IF on mouse tongue cryosection



Intracellular FACS on TLR3-transfected human 293T cells

**Usage recommendation:**

- \*This monoclonal antibody may be used between 5-20  $\mu$ 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