

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

Product reference: DDX0474

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. 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.

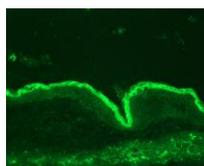
Clone:	713E4.06
Species:	mouse
Specificity:	human TLR3 (intracytoplasmic)
Immunogen:	human recombinant TLR3 in eukaryotic cells (pUNO-hTLR3)
Species cross-reactivity:	rat, mouse, dog, pig, sheep
Isotype:	IgG1
Purification:	QMA Hyper D ion exchange chromatography
Formulation/size:	Purified: 100 μ g in 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:

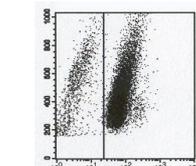
Reference		Format	Application tested
50 μ g	100 μ g		
DDX0474P-50	DDX0474P-100	Purified	Intracyto Flow cytometry, IHC paraffin
DDX0474A488-50	DDX0474A488-100	Alexa-fluor® 488	Intracyto Flow cytometry, IF
DDX0474A546-50	DDX0474A546-100	Alexa-fluor® 546	IF
DDX0474A647-50	DDX0474A647-100	Alexa fluor® 647	Intracyto Flow cytometry
DDX0474B-50	DDX0474B-100	Biotin (on request)	IHC paraffin

Other clones available on request

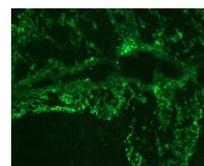
Applications tested:



IF staining of human skin cryosection with 713E4



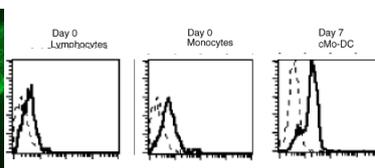
Intracellular FACS staining of human breast CAMA-1 cell line with 713E4



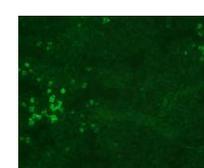
IF staining of human tonsil cryosection with 713E4



IF staining of rat footpad cryosection with 713E4



Intracellular FACS staining of canine blood cells with 713E4 (Bonnefont-Rebeix, 2007)



IF staining of mouse spleen cryosection with 713E4

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 use.

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