

# Monoclonal Anti-human, canine TLR7/CD287

## Product reference: DDX0500

**Description:**

At least twelve members of the Toll family have been identified. TLR7 is expressed on plasmacytoid DCs, B and T lymphocytes, neutrophils, eosinophils, NK cells, and lung and placenta epithelial cells. TLR7 is localized to endosomal/lysosomal compartments and is reported to respond to single-stranded RNA. Plasmacytoid DCs express TLR7 and respond to activation by producing high amounts of IFN- $\alpha$  /  $\beta$ . TLR7 ligands are R848, Imiquimod (Imidazoquinolin family) and loxoribine (guanosin analog). (*Diebold S.S. et al, Science 2004, 303, 1529; Barchet W.A. et al, 2005, Eur J Immunol 3:236; Lund J.M. et al., 2004, PNAS 5598; Hell F. et al., 2004 Science, 303, 1526 ; Gilliet M et al.,2008, Natur Rev Immunol.8, 594*).The 66H3 clone was generated through mouse immunization with human TLR7-transfected eukaryotic cells, and was found to cross react with canine TLR7 (*Bonnefont C, personal communication*).

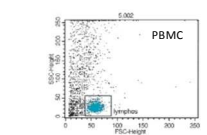
**Clone:** 66H3  
**Species:** mouse  
**Specificity:** human TLR7  
**Immunogen:** human recombinant TLR7transfected eukaryotic cells  
**Species cross-reactivity:** dog  
**Isotype:** IgG1  
**Formulation/size:** **Purified:** 100  $\mu$ g in 200  $\mu$ l / 50  $\mu$ g in 100  $\mu$ l Tris-NaCl pH 8  
**Coupled:** 100  $\mu$ g in 200  $\mu$ l / 50  $\mu$ g in 100  $\mu$ l PBS 50% glycerol

**Available formats:**

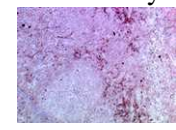
Reference N°		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0500P-50	DDX0500P-100	Purified	Intracellular Flow cytometry, IHC paraffin
DDX0500A488-50	DDX0500A488-100	Alexa-fluor® 488	Intracellular Flow cytometry, IF
DDX0500A546-50	DDX0500A546-100	Alexa- fluor® 546	Intracellular Flow cytometry, IF
DDX0500A647-50	DDX0500A647-100	Alexa- fluor® 647	Intracellular Flow cytometry, IF
DDX0500B-50	DDX0500B-100	Biotin ( <i>on request</i> )	IHC paraffin

**Applications:** IHC, intracellular flow cytometry, IHC paraffin

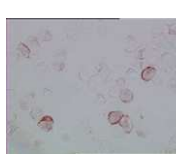
*Intracellular FACS staining of human PBMC with 66H3*



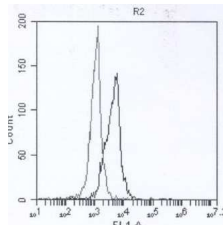
*IHC staining of human tonsil cryosection with 66H3*



*hu TLR7-transfected 293 cells stained with 66H3*



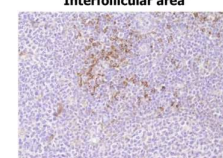
*Intracellular FACS staining of a canine cell line with 66H3*



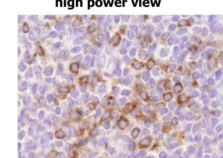
*Bonnefont C, personal comm. 2011*

*IHC staining of human FPPE tonsil section (Vermi William courtesy)*

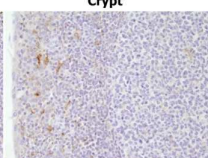
Interfollicular area



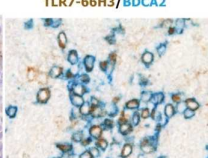
high power view



Crypt



TLR7-66H3/BDCA2



**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 use.

**Aliquot 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