

Product datasheet for **DDX0340A488-100**

IRAK4 Mouse Monoclonal Antibody [Clone ID: 6F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F8
Applications:	FC, IF
Recommend Dilution:	<u>DDX0340P-50 / DDX0340P-100 Purified:</u> IHC paraffin, IF, Intracellular flow cytometry, WB. <u>DDX0340A488-50 / DDX0340A488-100 Alexa-fluor®488:</u> IF, Intracellular flow cytometry. <u>DDX0340A546-50 / DDX0340A546-100 Alexa-fluor®546:</u> IF, Intracellular flow cytometry. <u>DDX0340A647-50 / DDX0340A647-100 Alexa-fluor®647:</u> IF, Intracellular flow cytometry.
	Usage recommendation: *This monoclonal antibody may be used between 5-20 µg/ml. *Optimal dilution should be determined by each laboratory for each application. *Coupled antibody: to maintain RT before use.
Reactivity:	Canine, Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	human recombinant IRAK-4 transfected 293T cells.
Specificity:	Human IRAK-4. Species cross-reactivity: Dog.
Formulation:	<u>Purified:</u> 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8. <u>Coupled:</u> 100 µg in 200 µl / 50 µg in 100 µl PBS 50% glycerol. Label: Alexa Fluor 488
Concentration:	0.5 mg/ml
Conjugation:	Alexa Fluor 488
Gene Name:	interleukin 1 receptor associated kinase 4
Database Link:	Entrez Gene 51135 Human



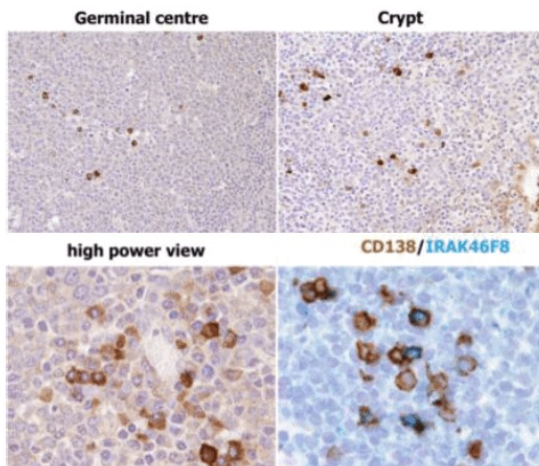
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Background:

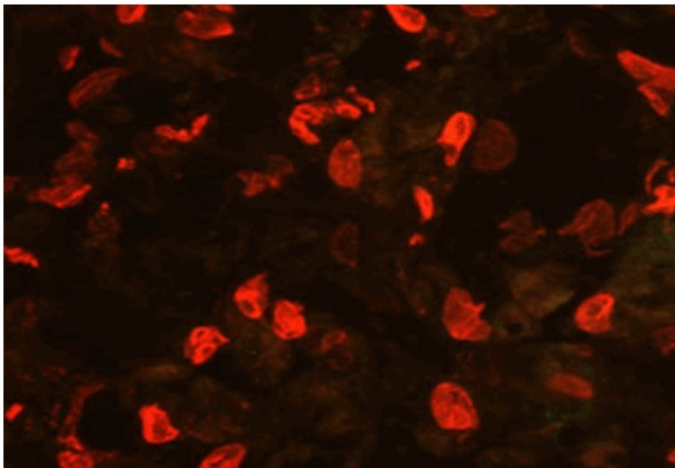
IL-1R associated kinases (IRAKs) are important mediators in the signal transduction of Toll / IL-1R (TIR) family members. The mammalian family of IRAK molecules contains four members (IRAK1, IRAK2, IRAK-M and IRAK4). IL-1 stimulation leads to the recruitment of the IL-1R associated kinase (IRAK) to the IL-1 Receptor where IRAK is phosphorylated, ubiquitinated, and eventually degraded. Endogenous IRAK-4 interacts with IRAK-1 and TRAF6 in an IL-1 dependent manner. IRAK-4 is able to phosphorylate IRAK-1. The 6F8 clone was generated after mouse immunization with human IRAK4-transfected eukaryotic cells. This monoclonal antibody was demonstrated to cross-react with canine IRAK-4. (Cao S. *et al*, 1996 ; *Science*, 271, 1128-1131 ; Li S. *et al*, 2002 ; *PNAS*, 99, 5567-5572, Bonnefont C, *personal communication*, 2011).

Synonyms:

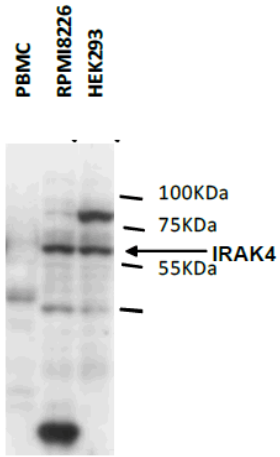
IRAK-4, NY-REN-64

Product images:

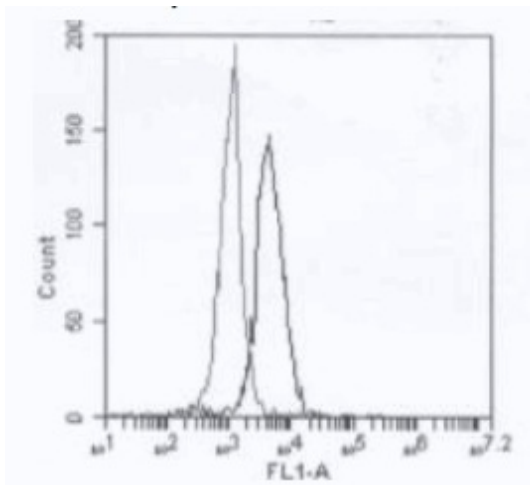
IHC staining of human FFPE tonsil section (Vermi William courtesy)



IF staining of human tonsil with 6F8 (DDX0340)



WB with 6F8 (Innateplatform, CLARA, Lyon)



FACS staining of canine cell line with 6F8 (BonfontC, personalcomm., 2011)