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DATA SHEET

Mouse Anti-CD47/IAP (Integrin Associated Protein) [CD47/2937]: MC0027, MC0027RTU7

Intended Use: For Research Use Only

Description: This antibody reacts with Ig domain of CD47 protein. It has been shown to inhibit polymorphonuclear neutrophil (PMN) transmigration across cell monolayers and matrix. CD47, originally named integrin-associated protein (IAP), is a 50kDa protein containing five membrane-spanning sequences and a short cytoplasmic tail. CD47 plays a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It is important in memory formation and synaptic plasticity in the hippocampus. CD47 may play a role in membrane transport and/or integrin dependent signal transduction.

Specifications:

Clone:	CD47/2937
Source:	Mouse
Isotype:	IgG2c/k
Reactivity:	Human
Immunogen:	Recombinant fragment aa 18-135 of human CD47 protein
Localization:	Membrane
Formulation:	Antibody in PBS 7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, WB

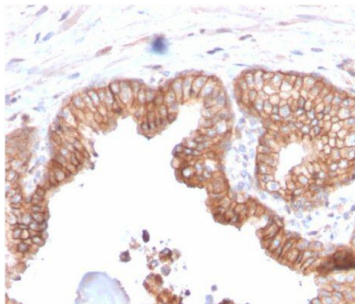
Package:

Description	Catalog No.	Size
CD47/IAP (Integrin Associated Protein) Concentrated	MC0027	1 ml
CD47/IAP (Integrin Associated Protein) Prediluted	MC0027RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Placenta, brain and ovarian tumors
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human prostate carcinoma stained with anti-CD47 using DAB

References

1. Suppressed expression of homotypic multinucleation, extracellular domains of CD172α (SIRP-α) and CD47 (IAP) receptors in TAMs upregulated by Hsp70-peptide complex in Dalton's lymphoma. Gautam PK, et al. Scand J Immunol. Jul;80(1):22-35, 2014.
2. A new disulfide-linked dimer of a single-chain antibody fragment against human CD47 induces apoptosis in lymphoid malignant cells via the hypoxia inducible factor-1α pathway. Sagawa M, et al. Cancer Sci. Jun;102(6):1208-15, 2011.
3. Upregulation of thrombospondin-1(TSP-1) and its binding partners, CD36 and CD47, in sporadic inclusion body myositis. Salajegheh M, et al. J Neuroimmunol. Jul;187(1-2):166-74, 2007.

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