
Mouse Anti-CD47 (Biotin) Recombinant Antibody

No. :KF-ab0037

- Expression Host:** Nicotiana benthamiana plants
- Clonality:** Monoclonal, recombinant
- Species and Isotype:** Mouse IgG2a
- Description:** This product is a full-length Mouse IgG2a recombinant antibody specific to Human CD47 (IAP) protein. It was produced in Nicotiana benthamiana plants via Agrobacterium tumefaciens-mediated infiltration.
- Verified Applications:** Western blot, ELISA, Immunocytochemistry (ICC)
- Dilution Range:** Western blot (1: 1 000 - 1: 10 000)
ELISA (1: 1 000 - 1: 250 000)
ICC (1:100-1:300)
- Tested Species Reactivity :** Human
- Concentration :** 1 mg/ml
- Form :** Liquid
- Storage:** Short-term (up to one week): 2 - 8 ° C
Long term: Aliquot and store at - 20 ° C
Store immediately. Aliquot and avoid multiple freeze-thaw cycles.
- Storage Buffer:** 0.1 M Phosphate Buffered Saline, pH 7.4. Preservative: None
- Purification Notes:** This product was purified using Protein A- affinity chromatography.
- Purity:** \geq 95% as determined by SDS-PAGE
- General Notes:** For Research Use only, unless otherwise indicated.

Image:

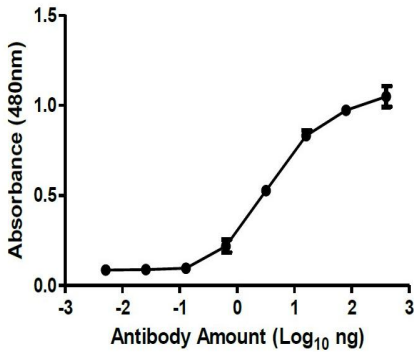


Figure 1. ELISA Dose Response curve: using Mouse Anti-CD47 (Biotin) Antibody from 4.0 – 0,0000512 ng/uL to detect 25 ng Human CD47 protein antigen. Experiments were performed in triplicate, with error bars representing standard deviation (SD).

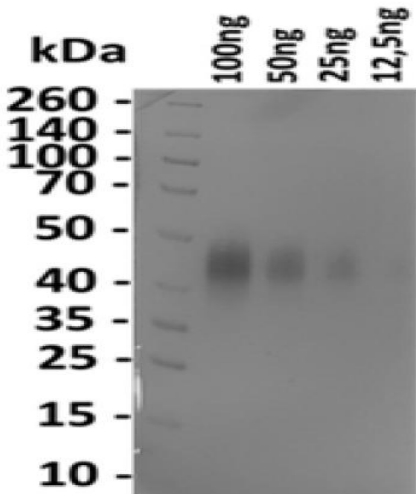


Figure 2. Western blot of decreasing amounts of Human CD47 Protein (44 kDa) detected with Mouse Anti-CD47 (Biotin) at 1: 5 000 and Streptavidin-HRP at 1: 5 000.

Merged Hoechst 33342 and Alexa Fluor® 488

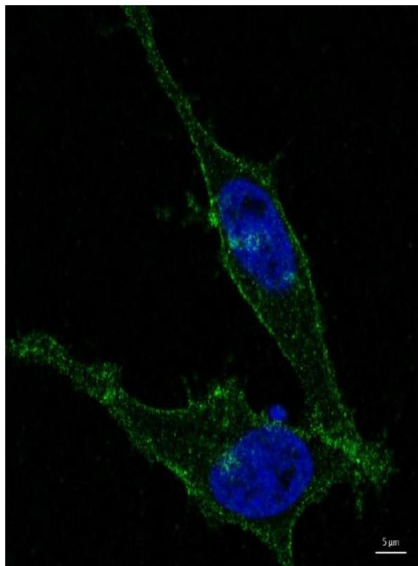


Figure 3. Immunocytochemistry: HeLa cells were plated at 200 000 cells/ well in 6-well plates on coverslips and allowed to adhere. Following fixing and blocking, cells were incubated with 1:200 dilution of Mouse Anti-CD47 (Biotin) primary antibody, and 1:300 dilution of a commercial Anti-Mouse Alexa Fluor® 488 conjugated commercial secondary antibody. Images were taken on a Zeiss LSM780 with ELYRA PS1 platform confocal microscope (60X) at the Stellenbosch University CAF unit. Thank you to Prof Georgia Schafer (ICGEB) for kindly donating the HeLa cells and Mrs Lize Engelbrecht for her outstanding assistance.