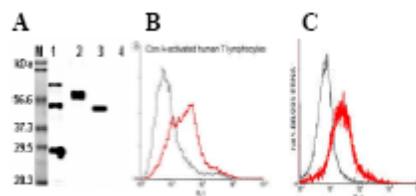


RABBIT ANTI-4-1BB (CD137) POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB1864	QUANTITY:	100 μ L
LOT NUMBER:		HOST:	Rabbit
ALTERNATE NAMES:	CD137, ILA		
SPECIFICITY:	Human 4-1BB. 4-1BB is a member of the tumor necrosis factor receptor superfamily as a co-stimulatory molecule of T cell activation. This antibody recognizes a 29 kDa band by Western blot.		
IMMUNOGEN:	GST-4-1BB extracellular domain.		
APPLICATIONS:	Western blotting: 1:2,000-5,000 ELISA, direct and indirect: 1:2,000-1:10,000. Flow cytometry: 1:1,000		



A: Western blot analysis of recombinant human 4-1BB
 With anti-human 4-1BB PAb at 1:5,000 dilution

1. Human 4-1BB his-tag protein
2. Human 4-1BB Fc-fusion protein
3. Human 4-1BB GST fusion protein
4. Mouse 4-1BB Fc-fusion protein

B: Con A-activated human T Lymphocytes were significantly stained by anti-h4-1BB polyclonal antibody.

C: Human 4-1BB transfected HEK 293 cells were stained significantly by anti-4-1BB polyclonal antibody

Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY:	Human. Does not cross-react with mouse 4-1BB.
FORMAT:	Rabbit serum.
PRESENTATION:	Liquid in PBS, pH 7.4 with no preservatives.
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

FACS Protocol for AB1864

1. Wash 0.5 – 1.0 X 10⁶ cells with FACS buffer (see below) 2 times.
2. Resuspend cells in 100 μ L FACS buffer.
3. Add 0.5 – 1.0 μ L of undiluted AB1864 and incubate on ice for 1 hour, for negative control, use pre-immune serum or isotype matched Ig.
4. Wash 2 times in FACS buffer.



5. Resuspend in 100 μ L FACS buffer and add 0.5 μ L secondary antibody-FITC conjugate.
6. Incubate on ice for 40 min.
7. Wash 2 times in FACS buffer and resuspend in 500 μ L FACS buffer.
8. FACS analysis.

FACS Buffer

PBS + 0.2% BSA + 0.1% sodium azide

Filter through 0.45 μ m

Keep at 4°C

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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