PRODUCT DATA SHEET

Product: Anti-APRIL mAb, clone Aprily-8

Cat. No.: **MC-094 (100 µg)**

Synonyms:
A-Proliferation-inducing Ligand, CD256, TNFSF 13.

Specificity:
Recognizes human APRIL and TWE-PRIL.

Species Reactivity:
Human. Does not cross-react with mouse APRIL and TWE-PRIL. Others species not tested.

Ig Isotype:
Mouse IgG_1

Immunogen:
Recombinant human APRIL (aa 93-233).

Format:
100 µg of antibody at 1 mg/mL purified from concentrated hybridoma tissue supernatant in PBS with 0.02% sodium azide. ≥95% purity as determined by SDS-PAGE.

Storage:
Store at 4°C short term and at -20°C long term. Aliquot to avoid freeze/thaw cycles.

Applications:
- Western blot (excellent)
- Flow cytometry
- Immunoprecipitation
- Immunocytochemistry (excellent)
- Immunohistochemistry (paraffin)

The optimal dilution for a specific application should be determined by the researcher.

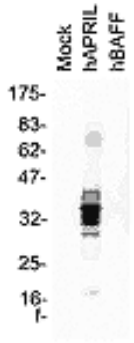

Figure 1: Western blot of total cell extracts from HEK 293 cells transfected with the indicated expression vector. Aprily-8 reacts specifically with human APRIL.
Method: 10 µg of protein was applied to the gel. Revealed with Aprily-8 (1 µg/mL) and HRP-coupled anti-mouse secondary antibody.
Note: The human APRIL construct used in this experiment is an uncleavable fusion protein between human BAFF (aa 1-132) and human APRIL (aa 93-233).

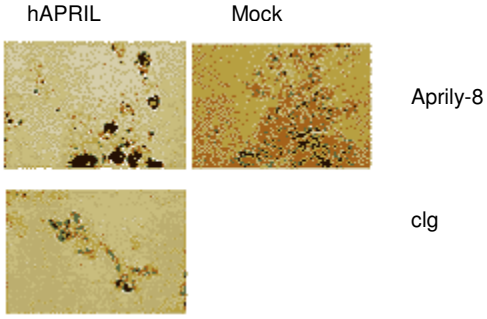

Figure 2: Immunostaining of HEK 293 cells transfected with a human APRIL expression plasmid (left panels), or mock transfected (right panel) by Aprily-8.
Method: 3 days after transfection of cells with the indicated constructs, cells were fixed with 4% formaldehyde 5 min. at RT. After a wash in PBS, samples were dehydrated by washes in 60%, 80%, 90%, 100% EtOH and xylol. Cells were then dried and embedded in paraffin. Sections were cut, mounted on slides and dried overnight at 50°C. Slides were then successively washed 2x 10 min. in xylol, 2x 10 min. in 100% ethanol, and then treated 10 min. in 100% methanol/ 0.6% H_2O_2 to inhibit endogenous peroxidase. Samples were rehydrated by washes in 90%, 80%, 60% ethanol and PBS. After micro-wave treatment, slides were washed 3x in PBS, blocked with IgG, and incubated for 1 hour with 5 µg/mL Aprily-8 or control mouse IgG (isotype control) in 1% BSA / 1x PBS for 1 hour. After PBS washes, samples were incubated with the secondary Ab for 1 hour, washed in PBS and revealed with StreptABComplex/HRP (Vector) and AEC.

PRODUCT DATA SHEET

Cat. No.: **MC-094 (100 µg)**

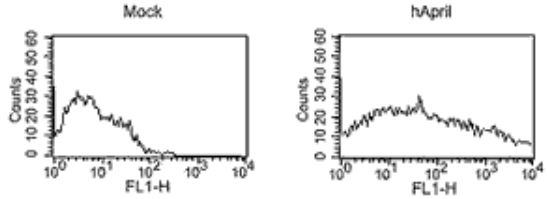

Figure 3: FACS analysis of cells with mAb to APRIL (MC-094).
Method: HEK 293 cells were mock transfected or transfected with an expression plasmid coding for a non-cleavable human APRIL. Cells ($5x10^5$) were incubated on ice for 30 min. in 50 µL FACS buffer (PBS, 5% fetal calf serum, 0.02% azide) containing 10 µg/mL of MC-094 antibody. After washing in FACS buffer, FITC-conjugated antibody to mouse IgG was added. Cells were incubated on ice for 30 min., washed and analyzed by flow cytometry.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.