Goat anti-rabbit IgG, FSD™ 680

Catalog number :RSA1275

Component	Storage	Concentration
Goat anti-rabbit IgG, FSD™ 680	4 ℃, Protect from light	2 mg/mL

OVERVIEW

Goat anti-rabbit IgG, FSD™ 680 is a fluorescence conjugated secondary antibody that displays excellent optical imaging with low cross reactivity. Anti-rabbit secondary antibodies display specificity for rabbit IgG and are useful for the detection of specific target. Since multiple secondary antibodies can bind to a single primary antibody, Goat anti-rabbit IgG, FSD™ 680 might provide the great sensitivity in signal amplification, visualize low abundant targets and reduce experimental time. FSD Fluor™ is a new generation of dye series with superb fluorescence intensity and high quantum yield comparing to traditional dyes. FSD™ 680 might be excited using 633 nm laser line and displays excellent optical property. We offer Goat anti-rabbit IgG, FSD™ 680 as a suitable fluorescent molecular probe for many biological experiments such as fluorescence microscopy, flow cytometry, microplate assays, protein and nucleic acid blots, in situ hybridization, etc.

Applications	Notes
Western Blot	0.1-0.4 µg/mL
Immunohistochemistry	Assay-dependent
Immunocytochemistry	1-10 µg/mL
Flow Cytometry	1-10 µg/mL

PARAMETERS

Excitation: 679 nm
Emission: 696 nm

MATERIALS REQUIRED BUT NOT PROVIDED

- PBS
- 4% paraformaldehyde
- Triton X-100
- Fluorescence microscope
- Dapi
- Confocal dish

EXPERIMENTAL PROTOCOLS

1. Cell seeding

→Seed cells in a confocal dish at a concentration of $2x10^4$ cells/mL.

NOTE: The number of cells may vary depending on the cell type and incubation time.

2. Fixation

Add 4% paraformaldehyde (1 mL/well)

→ Incubate for 30 minutes at room temperature

→ After washing with PBS twice, add 2mL of PBS and store at 4°C.

3. Permeabilization

After removing PBS, add 1 mL of PBST (PBS with 0.1% Triton X-100) per well.

→ Incubate for 30 minutes at room temperature.

4. Blocking

Wash twice with PBS and add 1 mL of blocking buffer (e.g., 3% BSA in PBS) per well.

→ Incubate for 30 minutes at room temperature.

5. Primary Antibody Incubation

After washing twice with PBS, dilute the primary antibody in blocking buffer to the desired concentration.

→ Apply diluted primary antibody

→ Incubate for 1 hour at room temperature.

6. Secondary Antibody Incubation

After washing twice with PBS, dilute the secondary antibody in blocking buffer to the desired concentration.

→ Apply diluted secondary antibody.

→ Incubate for 1 hour at room temperature.

7.DAPI Staining

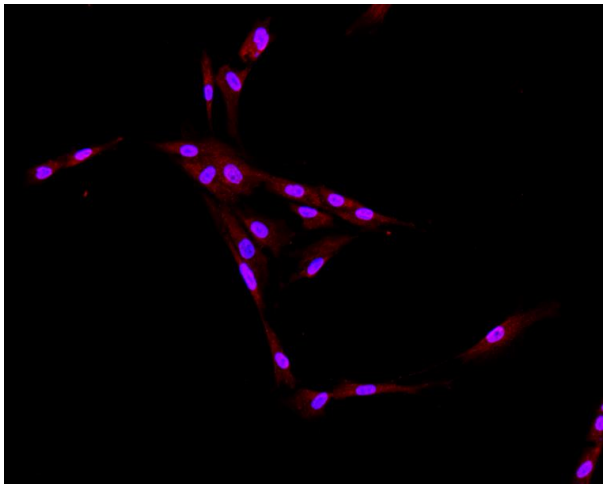
After washing twice with PBS, add DAPI solution (1mL/well)

→ Incubate for 20 minutes at room temperature

→ Wash twice with PBS and add 2mL of PBS

After completing this process, examine the fluorescence using an immunofluorescence microscope.

HELA CELL STAINING with Goat anti-rabbit IgG, FSD™ 680



Hela cells were stained with Goat anti-rabbit IgG, FSD™ 680 (1^{st} Ab – PMP-70 (1:200), 2^{st} Ab – FSD™ 680 (1:1000))

TECHNICAL SUPPORT

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