

# XFD555 Anti-human/ non-human primates CD137 Antibody \*4B4-1\*

Catalog Number: 11370150, 11370151

Unit Size: 100 tests, 500 tests

### **Product Details**

Storage Conditions 2-8°C with minimized light exposure. Do not freeze.

**Expiration Date** 12 months upon receiving

Concentration Lot specific (please consult certificate of analysis for given lot)

Formulation Phosphate-buffered saline (PBS, pH 7.2), 0.09% sodium azide, 0.2% (w/v) BSA

## **Antibody Properties**

Species Reactivity Human, non-human primates

Class Primary

Clonality Monoclonal

Host Mouse

Mouse IgG1 kappa Isotype

**Immunogen** CD137 (4-1BB, ILA, TNFRSF9)

Clone 4B4-1

AF555 Conjugate

#### **Biological Properties**

**Appearance** Red liquid

Antibody purified by affinity chromatography and then conjugated with AF555 under optimal

conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

For flow cytometry applications, the suggested concentration is at 5 uL/million cells in 100 uL staining

buffer. For the best performance of each application, the optimal concentration of this reagent needs

Recommended

Preparation

to be carefully determined.

**Dilutions** 

\*The suggested working dilution is provided as a guide only. It is recommended that the users titrates

the product for use in their tests using proper positive and negative controls.

## Spectral Properties

Conjugate AF555

Excitation Wavelength 553 nm

Emission Wavelength 568 nm

## **Applications**

The 4B4-1 monoclonal antibody reacts with human/ non-human primates CD137, a 30 kD member of the TNFR superfamily frequently located on the surface of T cells and follicular dendritic cells. CD137 acts in vital cellular pathways, for example, the tumor necrosis factor-mediated signaling pathway. In addition, in certain organisms, it downregulates cell population proliferation. From a research standpoint, it is of biological interest due to its association with essential macromolecules/ligands such as 4-1BB ligand. CD137 is a fairly uncommon antibody target, with a little more than 4100 publications in the last decade. Even still, CD137 is often used in flow cytometry applications as a phenotypic marker for differentiation of cell types, specifically in the study of immunology and costimulatory molecules. This antibody was purified through affinity chromatography and conjugated to XFD555 (ex/em = 553/568 nm). XFD555 is manufactured by AAT Bioquest, and it has a chemical structure similar to that of Alexa Fluor® 555 (Alexa Fluor® is the trademark of Thermo Fisher). It is compatible with the 561 nm laser and 582/15 nm bandpass filter (for example, as in the BD FACSMelody™).