

## 36-2594: Anti-CD137 / 4-1BB / TNFRSF9 Monoclonal Antibody(Clone: 4-1BB/3201)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	4-1BB/3201
<b>Application :</b>	ELISA,IF,FACS,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	TNFRSF9
<b>Gene ID :</b>	3604
<b>Uniprot ID :</b>	Q07011
<b>Alternative Name :</b>	4-1BB Ligand Receptor T Cell; Antigen 4-1BB Homolog; CDw137; HLDA VI; Homolog of Mouse 4 1BB; induced by lymphocyte activation (ILA); Interleukin activated receptor homolog of Mouse Ly63; T-cell antigen 4-1BB / ILA homolog; Tumor necrosis factor receptor superfamily member 9
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	A recombinant fragment (around aa 19-188) of human CD137 / 4-1BB / TNFRSF9 protein (exact sequence is proprietary)

### Description

CD137 belongs to the tumor necrosis factor receptor family and delivers a costimulatory signal to T lymphocytes. It is expressed on activated T cells and binds an inducible ligand that is found on B cells, macrophages and dendritic cells. Interactions between CD137 and its ligand are involved in antigen presentation and the generation of cytotoxic T cells. CD137 antibody may improve cancer treatment, and has been implicated in breast cancer, melanoma and lymphoma.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

ELISA (For coating, order antibody without BSA); Immunofluorescence (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),

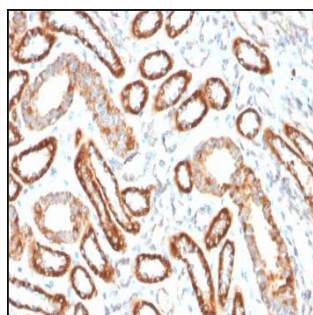


Fig. 1: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201).

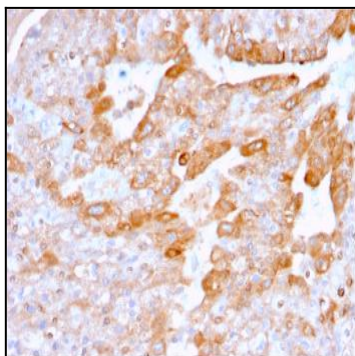


Fig. 2: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201).

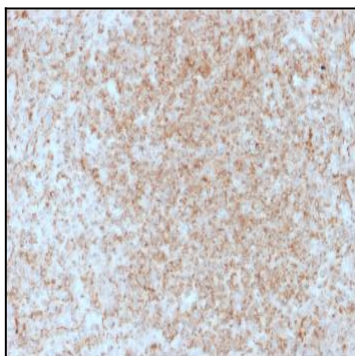


Fig. 3: Formalin-fixed, paraffin-embedded human Spleen stained with CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201).

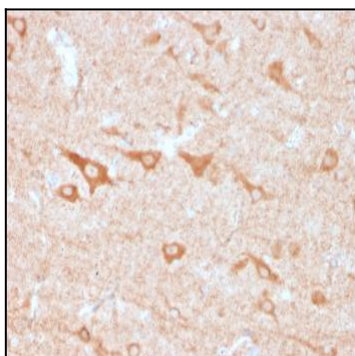


Fig. 4: Formalin-fixed, paraffin-embedded human Cerebellum stained with CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201).

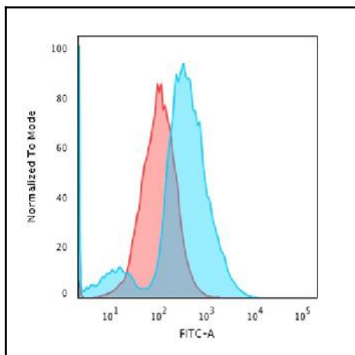


Fig. 5: Flow Cytometric Analysis of MeOH-fixed HEK293 cells. CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

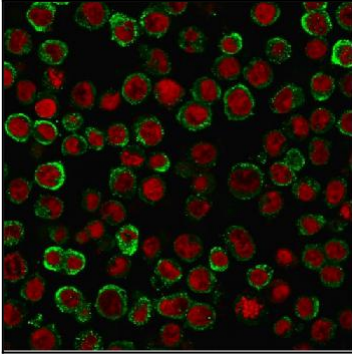


Fig. 6: Immunofluorescent staining of MeOH-fixed HEK293 cells. CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are stained with Reddot (red).

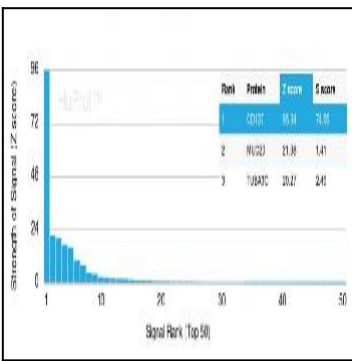


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD137-Monospecific Mouse Monoclonal Antibody (4-1BB/3201). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.