# Recombinant CD137 / 4-1BB / TNFRSF9 (Marker of Activated T Cells & NK Cells) Antibody

Mouse Monoclonal Antibody [Clone rS16]

| Catalog No | Format | Size |
|---|---|---|
| 3604-MSM11-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3604-MSM11-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3604-MSM11-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

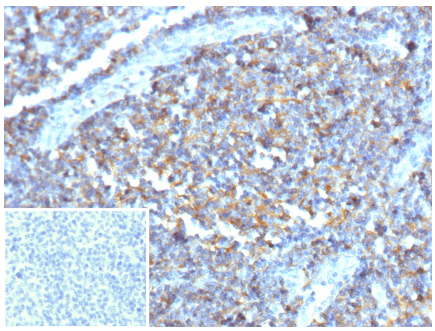
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

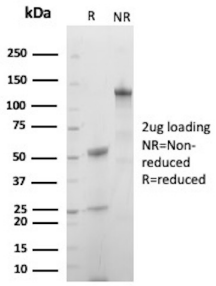
| | |
|---|---|
| **Clone** | rS16 |
| **Gene Name** | TNFRSF9 |
| **Immunogen** | Prokaryotic recombinant protein corresponding to a 140 amino acid sequence from the external domain of the N-terminus of the human CD137 molecule |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgM / Kappa |
| **Mol. Weight of Antigen** | 32kDa (monomer); 85kDa (dimer) |
| **Cellular Localization** | Cell membrane, Cytoplasm |
| **Species Reactivity** | Human |
| **Positive Control** | HEK-293 cells. Human tonsil, lymph node or spleen. |

**Optimal dilution for a specific application should be determined.*

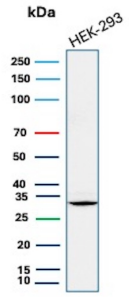
## Product Images for Recombinant CD137 / 4-1BB / TNFRSF9 (Marker of Activated T Cells & NK Cells) Antibody



Formalin-fixed, paraffin-embedded human tonsil stained with CD137 Recombinant Mouse Monoclonal Antibody (rS16). Inset: PBS instead of primary antibody; secondary only negative control.




SDS-PAGE Analysis of Purified Tumor necrosis factor receptor superfamily member 9 Recombinant Mouse Monoclonal Antibody (rS16). Confirmation of Purity and Integrity of Antibody.




Western blot analysis of HEK-293 cell lysate using CD137 Recombinant Mouse Monoclonal Antibody (rS16).

## Specificity & Comments

CD137, a member of the tumor necrosis factor receptor family, and its ligand are expressed on activated T lymphocytes and on antigen-presenting cells, respectively. This receptor/ligand system regulates the activation, proliferation and survival of T and B lymphocytes and monocytes through bidirectional signal transduction. Human CD137 is also expressed on activated B cells, Reed Sternberg cells and peripheral blood monocytes but is absent from resting T cells. In non-lymphoid cells it has been detected in blood vessel walls, on the endothelial layer and on vascular smooth muscle cells. Soluble forms of CD137 are also found in sera. 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. It is a target for immunotherapy.

## Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

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. No MSDS required.

## Research Areas

AKT Signaling, Apoptosis, B Cell Markers, Cardiovascular, Cytokine Signaling, Immuno Oncology, Immunology

## Limitations and Warranty