bs-23572R **[Primary Antibody]**

CD137 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3604 **SWISS:** Q07011

Target: CD137

Immunogen: KLH conjugated synthetic peptide derived from human CD137 : 81-180/255. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: CD137 exists on the cell surface as a monomer with a molecular mass of 30 kDa and as a dimer of 55 kDa. Human and mouse CD137 share 60% amino acid identity. CD137 (4-1BB), a member of the tumour necrosis factor receptor superfamily, is a type I transmembrane glycoprotein expressed on the cell surface of activated splenic T cells and thymocytes. The functions of CD137 in T lymphocytes include regulating activation, proliferation and apoptosis. CD137 and CD28 are costimulatory molecules of T cell activation. Costimulatory molecules are important in initiating anti-tumor immune responses. CD137 plays an important role in regulating T-cell-dependent immune responses. Expression of CD137 correlates negatively with lymphocyte proliferation and positively with the degree of activation-induced cell death caused by mitogen overstimulation. In monocytes, CD137 induces activation, promotes adherence and prolongs survival.

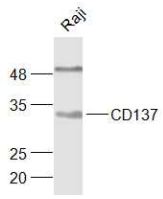
Applications: **WB** (1:500-2000)

Reactivity: Human

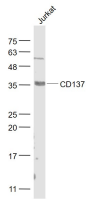
Predicted MW.: 25 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Raji(Human) Cell Lysate at 30 ug Primary: Anti-CD137 (bs-23572R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 30 kD



Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti- CD137 (bs-23572R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 35 kD

SELECTED CITATIONS

- **[IF=12.91]** Kai Ye. et al. An armed oncolytic virus enhances the efficacy of tumor-infiltrating lymphocyte therapy by converting tumors to artificial antigen presenting cells in situ. MOL THER. 2022 Jun;: IHC ;Mouse. 35715953
- **[IF=12.5]** Wang Simeng. et al. Loss of CDKN2A Enhances the Efficacy of Immunotherapy in EGFR Mutant Non-Small Cell Lung Cancer. CANCER RES. 2024 Nov;: WB ;Rat,Mouse. 39514336
- **[IF=12.5]** Simeng Wang. et al.Loss of CDKN2A Enhances the Efficacy of Immunotherapy in EGFR-Mutant Non–Small Cell Lung Cancer.cancer research.2025 Feb 1;85(3):585-601. Western blot ;Human. 39514336
- **[IF=2.561]** Peng X et al. Overexpression of modified human TRβ1 suppresses the growth of hepatocarcinoma SK-hep1

cells in vitro and in xenograft models.Mol Cell Biochem. 2018 Dec;449(1-2):207-218. IHC ;Mouse. 29679278