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TROP2 Recombinant Monoclonal Antibody

Product Code	CSB-RA023072MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P09758
Immunogen	Recombinant Human TROP2 protein
Species Reactivity	Human
Tested Applications	ELISA
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	hlgG1
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	TACSTD2
Clone No.	10B10

Image



The Binding Activity of Huamn TROP2 with Anti-TROP2 recombinant Antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized Human TROP2 (CSB-MP023072HU1d7) at 2 μ g/mL can bind Anti-TROP2 recombinant antibody, the EC₅₀ is 0.7284-1.075 ng/mL.



The Binding Activity of Huamn TROP2 with Anti-TROP2 recombinant Antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized Human TROP2(CSB-MP023072HU2) at 2 μ g/mL can bind Anti-TROP2 recombinant antibody, the EC₅₀ is 0.9108-1.640 ng/mL.

The TROP2 monoclonal antibody was produced by immunizing with



recombinant human TROP2 protein. The gene encoding the TROP2 monoclonal antibody was cloned into a plasmid vector after sequencing the cDNA. Transfection of the host cell with the plasmid vector containing the TROP2 monoclonal antibody gene was performed using a suitable transfection method. The affinity chromatography purification of the resulting TROP2 recombinant monoclonal antibody was carried out, and its specificity was tested in ELISA. This TROP2 recombinant monoclonal antibody showed the ability to bind specifically to recombinant human TROP2 (CSB-MP023072HU1d7) with an EC₅₀ range of 0.7284-1.075 ng/mL. It can react with human TROP2 protein.

TROP2, also known as TACSTD2, is a transmembrane glycoprotein expressed in various human tissues and plays a role in cell adhesion, migration, and proliferation. It is involved in the regulation of cell growth and differentiation and has been shown to be upregulated in many types of cancer, including breast, colorectal, lung, and ovarian cancer. TROP2 overexpression is associated with tumor growth, metastasis, and poor patient prognosis. Additionally, TROP2 has been identified as a target for cancer immunotherapy.