

Anti-EpCAM/TROP1 Antibody (7L889)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7L889
Purification:	Protein A

Applications

1. Anti-EPCAM mouse monoclonal antibody at 1:500 dilution.

-Lane A: A431 Whole Cell Lysate.

-Lane B: MCF7 Whole Cell Lysate.

-Lane C: HCT116 Whole Cell Lysate.

-Lane D: COLO205 Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.

-Developed using the Odyssey technique.

-Performed under reducing conditions.

-Predicted band size:35 kDa.

Verified Activity: -Observed band size:40 kDa.

2. EPCAM was immunoprecipitated using:

-Lane A:0.5 mg MCF-7 Whole Cell Lysate

-0.5 µL anti-EPCAM mouse monoclonal antibody and 15 µl of 50 % Protein G agarose.

-Primary antibody:

-Anti-EPCAM mouse monoclonal antibody, at 1:500 dilution.

-Secondary antibody:

-Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution.

-Developed using the odyssey technique.

-Performed under reducing conditions.

-Predicted band size: 40 kDa.

-Observed band size: 40 kDa

Application: WB

Recommended WB: 1:500-1:1000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human EpCAM protein (TMPY-01300)
Antigen Species: Human
Synonyms: EGP-2;DIAR5;epithelial cell adhesion molecule;EGP314;KS1/4;EGP40;ESA;TROP1;HNPCC8;MIC18;KSA;M4S1;TROP-1;TACSTD1;MK-1

Research Background

Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2 antigen, is a type I transmembrane glycoprotein composed of an extracellular domain with two EGF-Like repeats and a cystenin-rich region, a transmembrane domain and a cytoplasmic domain. It modulates cell adhesion and proliferation. Its overexpression has been detected in many epithelial tumours and has been associated with high stage, high grade and a worse survival in some tumour types. EpCAM has been shown to function as a calcium-independent homophilic cell adhesion molecule that does not exhibit any obvious relationship to the four known cell adhesion molecule superfamilies. However, recent insights have revealed that EpCAM participates in not only cell adhesion, but also in proliferation, migration and differentiation of cells. In addition, recent study revealed that EpCAM is the Wnt-beta-catenin signaling target gene and may be used to facilitate prognosis. It has oncogenic potential and is activated by release of its intracellular domain, which can signal into the cell nucleus by engagement of elements of the wnt pathway.

Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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