

Product Datasheet

CEA/CEACAM5 Rabbit Polyclonal Antibody (orb1728197)

Catalog Number	orb1728197
Category	Antibodies
Description	Anti-CEA/CEACAM5 Antibody. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.
Target	Cell adhesion molecule CEACAM5
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	Rabbit IgG
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Buffer/Preservatives	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Immunogen	E.coli-derived human CEA/CEACAM5 recombinant protein (Position: N553-G678).
UniProt ID	P06731

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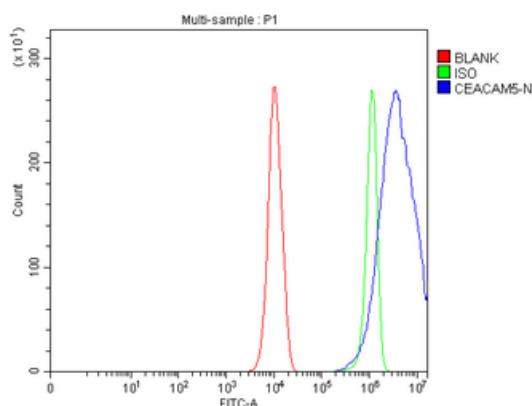
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MW	200 kDa
Tested applications	ELISA, FC, WB
Dilution range	Western blot, 0.1-0.25 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x1x10 ⁶ cells, Human ELISA, 0.1-0.5 µg/ml, -
Cross Reactivity	No cross-reactivity with other proteins.
Antibody Type	Primary Antibody
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow Cytometry analysis of PC-3 cells using anti-CEA/CEACAM5 antibody. Overlay histogram showing PC-3 cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CEA/CEACAM5 Antibody (1 µg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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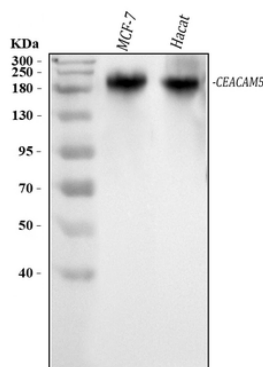
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Western blot analysis of CEA/CEACAM5 using anti-CEA/CEACAM5 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MCF-7 whole cell lysates, Lane 2: human Hacat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CEA/CEACAM5 antigen affinity purified polyclonal antibody at 0.25 $\mu\text{g}/\text{mL}$ overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CEA/CEACAM5 at approximately 200 kDa. The expected band size for CEA/CEACAM5 is at 77, 180-200 kDa.

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