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Rabbit anti- Tumor endothelial marker 8 (TEM8) Polyclonal Antibody

Catalog No. GB-30117

Reactivity: Human

Host species: rabbit

Quantity: 100µg (1 mg/ml)

Conjugate: unconjugated

Type: polyclonal antibody

Antigen species: Human

Applications tested: ELISA

Form: peptide affinity purified antibody

Target description

The protein encoded by this gene is a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. This protein has also been shown to be a docking protein or receptor for Bacillus anthracis toxin, the causative agent of the disease, anthrax. The binding of the protective antigen (PA) component, of the tripartite anthrax toxin, to this receptor protein

mediates delivery of toxin components to the cytosol of cells. Once inside the cell, the other two components of anthrax toxin, edema factor (EF) and lethal factor (LF) disrupt normal cellular processes. Three alternatively spliced variants have been described. Transcript Variant: This variant (1) encodes the largest isoform which has a unique 200 aa carboxy terminus.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic TEM8 peptide.

Application

The antibody specificity was assayed by ELISA with the synthetic TEM8 peptide. The antibody titer is more than 10K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/100 dilution for ELISA, 1/500 dilution for Western blot analysis (WB) of recombinant protein, 1/50 dilution for tissue extracts or cell lysates, 1/50 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-TEM2 pAb (GB-30131).
2. Anti-TEM3 pAb (GB-30132).
3. Anti-TEM4 pAb (GB-30133).
4. Anti-TEM5 pAb (GB-30028).
5. Anti-TEM5 pAb (GB-30088).
6. Anti-PRL-3 rabbit mAb (GB-63023).
7. Anti-PRL-3 pAb (GB-10343).
8. Anti-FLJ23603 rabbit mAb (GB-63024).
9. Anti-FLJ23603 pAb (GB-30024).
10. Anti-ZD52F10 pAb (GB-30025).
11. Anti-LOC54675 pAb (GB-30032).

Ab dilution	PI	Purified Ab
1:100	0.251	1.536
1:1,000	0.068	0.692
1:10,000	0.035	0.143
1:100,000	0.032	0.039
Titer		15 K

ELISA Procedure

Antigen is coated on EIA strips at 1µg per well. Add 200µl of blocking buffer and then wash wells with PBST buffer. Antiserum and purified Ab of GB-20128-36C is diluted in series as 10^2 – 10^5 folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as maximal dilution with >0.1 of ABS of antiserum minus prebleed serum.

Storage

It is supplied as peptide antigen affinity purified antibody. Store at 4°C for short term application. For long-term storage, aliquot and store at -20°C.

References

1. Akash Nanda, Eleanor B. Carson-Walter, Steven Seaman, Thomas D. Barber, Jason Stampfl, Sujay Singh, Bert Vogelstein, Kenneth W. Kinzler, and Brad St. Croix. TEM8 Interacts with the Cleaved C5 Domain of Collagen $\alpha 3$ (VI). Cancer Research 64, 817-820 (2004).
2. Darran J. Wigelsworth, Bryan A. Krantz, Kenneth A. Christensen, D. Borden Lacy, Stephen J. Juris, and R. John Collier. Binding Stoichiometry and Kinetics of the Interaction of a Human Anthrax Toxin Receptor, CMG2, with Protective Antigen. The Journal of Biological Chemistry. 279 (22), 23349–23356 (2004).

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