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Anti- Tumor endothelial marker 8 (TEM8), rabbit Polyclonal Antibody

Applications tested: ELISA Catalog No. GB-30115 Quantity: 100μg

Antigen species: Human Reactivity: Human

Form: Peptide affinity purified antibody Host species: Rabbit

Target description

The protein encoded by this gene is a type Itransmembrane 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 cytosolof 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 200a.a. carboxy terminus.

Antigen

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

Application

been tested in the other applications. However, storage, aliquot and store at -20°C. for the first testing, we recommend 1/100 dilution for ELISA, 1/500 dilution for Western References blot analysis (WB) of recombinant protein, 1/50 dilution for tissue extracts or cell lysates, 1/50 1. Akash Nanda, Eleanor B. Carson-Walter, Steven dilution for immunohistochemistry 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-FLJ63203 rabbit mAb (GB-63024).
- 9. Anti-FLJ63203 pAb (GB-30024).
- 10. Anti-ZD52F10 pAb (GB-30025).
- 11. Anti-LOC54657 pAb (GB-30032).

Ab dilution	Pre-bleed	Purified-Ab
1:100	0.341	1.794
1:1,000	0.100	1.345
1:10,000	0.049	0.475
1:100,000	0.036	0.101
Titer		91K

ELISA Protocol

Antigen is coated on EIA strips at 1µg per well. Add 200µlof blocking buffer and then wash wells with PBST buffer. Antiserum and purified Ab of GB-30115 is diluted in series as $10^2 \sim 10^5$ 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 pre-bleed serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with The antibody specificity was assayed by ELISA 100 microliter sterile water will restore to the with the synthetic TEM8 peptide. The antibody original concentration 1mg/ml (1×PBS). Store at titer is more than 90K for ELISA. It has not 4°C for short-term application. For long-term

- (IHC) Seaman, Thomas D. Barber, Jason Stampfl, Sujay staining on frozen cryosections, 1/50 dilution Singh, Bert Vogelstein, Kenneth W. Kinzler, and Brad St. Croix. TEM8 Interacts with the Cleaved C5 Domain of Collagen α 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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