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

Catalog No. GB-30113 Antigen species: Mouse Host species: Rabbit

Quantity: 100µg Reactivity: Human, mouse Form: Peptide affinity purified antibody

Applications tested: ELISA

Target description

The protein encoded by this gene is a type I transmembrane protein and is a tumorspecific 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 ELISA Protocol this receptor protein mediates delivery of Antigen is coated on EIA strips at 1µg per toxin components to the cytosol of cells. well. Add 200µl of blocking buffer and then Once components of anthrax toxin, edema factor immune serum and peptide specific purified (EF) and lethal factor (LF) disrupt normal antibodies GB-30113 are diluted in series as cellular processes. Three alternatively spliced $10^4 \sim 10^6$ folds and added in separate wells. variants have been described. Transcript Incubate antibody for 1hr. Wash unbound Variant: The variant (1) encodes the largest antibodies and add anti-rabbit IgG-HRP isoform which has a unique 200 aa carboxyl conjugate. Wash the plate and add substrate terminus.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide containing amino acids located within the putative vWA_ATR (Anthrax Toxin Receptor) region (aa 39-223) of human TME8.

Application

The antibody titer is more than 90K for ELISA. It has not been tested in the other applications. However, for the first testing, 1mg/ml (1xPBS). Store at 4°C for short-term we recommend 1/1,000 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-TEM1 pAb (GB-10374). 2.Anti-TEM2 pAb (GB-30131) 3.Anti-TEM3 pAb (GB-30132). 4.Anti-TEM4 pAb (GB-30133) 5.Anti-TEM5 pAb (GB-10011). 6.Anti-TEM5 pAb (GB-30028). 7.Anti-TEM5 pAb (GB-30088) 8.Anti-TEM8 pAb (GB-10344). 9.Anti-TEM8 pAb (GB-10009). 10.Anti-TEM8 pAb (GB-10010). 11.Anti-TEM8 pAb (GB-30021).

Ab dilution	Pre-bleed	Purified-Ab
1:0.1K	0.162	1.049
1:1K	0.061	0.806
1:10K	0.038	0.401
1:100K	0.037	0.119
1:1000K	0.036	0.052
Titer		~94.38K

inside the cell, the other two wash wells with PBST buffer. The preto 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 maxima 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 100 microliter sterile water will restore to the original concentration 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 a3(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).