



Anti- Tumor endothelial marker 4 (TEM4), rabbit Polyclonal Antibody

Catalog No. GB-30133

Antigen species: Human

Host species: Rabbit

Quantity: 100 μ g

Reactivity: Human

Form: Peptide affinity purified antibody

Applications tested: ELISA

Target description

Dr. St. Croix et al, using SAGE (Serial Analysis of Gene Expression) technology, have identified 46 genes that were specifically elevated in tumor-associated endothelium. Most of these tumor endothelial markers (TEMs) were expressed in a wide range of tumor types, as well as in normal vessels associated with wound healing and corpus luteum formation.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide containing amino acids on the predicted extracellular domain of human TEM4.

Application

The antibody titer is more than 690K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/5000 dilution for Western blot analysis (WB) of recombinant protein, 1/2000 dilution for tissue extracts or cell lysates, 1/100 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-TEM5 pAb (GB-10011).
5. Anti-TEM5 pAb (GB-30028).
6. Anti-TEM5 pAb (GB-30088).
7. Anti-TEM8 pAb (GB-10344).
8. Anti-TEM8 pAb (GB-10009).
9. Anti-TEM8 pAb (GB-10010).
10. Anti-TEM8 pAb (GB-30021).
11. Anti-TEM8 pAb (GB-30133).

Ab dilution	Pre-bleed	Purified-Ab
1:0.1K	0.452	1.969
1:1K	0.174	1.843
1:10K	0.099	1.061
1:100K	0.088	0.352
1:1,000K	0.074	0.148
Titer		~690 K

ELISA Protocol

Concentration of test purified pAb is 1mg/mL

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Pre-bleed serum and peptide specific purified antibody GB-30133 is diluted in series as $10^2 \sim 10^6$ 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 >0.1 of ABS of antiserum minus prebleed 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 1mg/ml (1 \times PBS). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

References

1. St.Croix B, Rago C, Velculescu V, Traverso G, Romans KE, Montgomery E, Lal A, Riggins GJ, Lengauer C, Vogelstein B and Kinzler KW. Genes expressed in human tumor endothelium. Science 289 (5482), 1197-1202 (2000).
2. Nanda A, Carson-Walter E, Seaman S, Barber T, Stampfl J, Singh S, Vogelstein B, Kinzler K, St. Croix B. Cell surface tumor endothelial markers are conserved in mice and humans. Cancer Research 64, 817-820, Feb 1, 2004.