

## Anti-TEM5 ADGRA2 Antibody

Catalog Number: A09540

### Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

### Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is  $\leq 0.5\mu\text{g}$  per  $1 \times 10^6$  cells in  $100\mu\text{l}$  of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

### About GPR124

Tumor endothelial markers (TEMs) are significantly up-regulated during angiogenesis and neoangiogenesis that are crucial for the growth of solid tumors. TEMs localized on the cell surface and conserved across species are of particular interest for future development of anti-angiogenic therapies. These include TEMs such as TEM1, TEM5, TEM7 and TEM8. TEM5 is a member of the adhesion family of G protein coupled receptors and is localized on the surface of endothelial cells. TEM5 is a seven-pass transmembrane receptor, unlike TEM1, TEM7 and TEM8 which span the membrane once. TEM5 is abundantly expressed in tumor vessels, heart, placenta, ovary, small intestine, and colon. Proteolytically processed soluble TEM5 mediates endothelial cell survival during angiogenesis by linking integrin to glycosaminoglycans.

### Overview

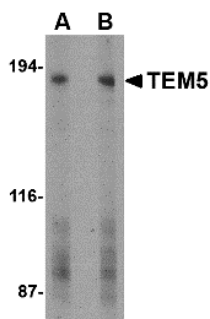
Product Name	Anti-TEM5 ADGRA2 Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-TEM5 ADGRA2 Antibody (Catalog # A09540). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Rat.
Conjugate	Biotin
Application	ELISA, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	TEM5 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TEM5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q96PE1

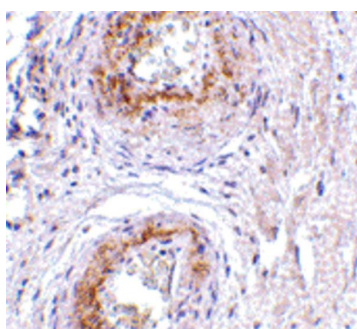
## Technical Details

Immunogen	TEM5 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of the human TEM5. The immunogen is located within amino acids 1270 - 1320 of TEM5.
Predicted Reactive Species	Mouse
Cross Reactivity	DPF3 antibody is human and mouse reactive. Multiple isoforms of DPF3 are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TEM5 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>TEM5 antibody can be used for detection of TEM5 by Western blot at 2 and 4 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL.</p> <p>Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

## Anti-TEM5 ADGRA2 Antibody (A09540) Images



Western blot analysis of TEM5 in human bladder tissue lysate with TEM5 antibody at (A) 2 and (B) 4 ug/mL.



Immunohistochemistry of TEM5 in human bladder tissue with TEM5 antibody at 5 ug/mL.

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