

## Anti-Wilms tumor protein WT1 Antibody

Catalog Number: A00199

### About WT1

FLT3 encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

Sekine S et.al. (2008) J Immunol. ;180(12):8126-34

Pratz K et.al. (2008) Leuk Lymphoma. 2008 ;49(5):852-63.

Al Shaer L et.al. (2008) Br J Haematol. 141(4):483-93.

### Overview

Product Name	Anti-Wilms tumor protein WT1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Wilms tumor protein WT1 Antibody catalog # A00199. Tested in WB,IF,IHC,ELISA applications. This antibody reacts with Human,Mouse,Rat.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P19544

### Technical Details

Immunogen	Synthesized peptide derived from human AIP4 around the phosphorylation site of Y420.
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid
Concentration	1 mg/ml
Purification	ProA affinity purified
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>WB: 1:500-1:2000 IHC: 1:100-1:500 IF: 1:100-1:500 ELISA: 1:5000-1:10000</p>

## Anti-Wilms tumor protein WT1 Antibody (A00199) Images

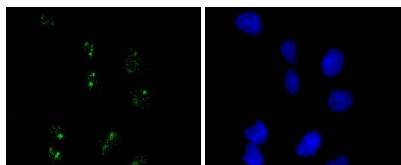


Figure 2. Immunocytochemistry staining of WT1 using Anti-Wilms tumor protein WT1 Antibody (A00199).

ICC staining Wilms Tumor Protein in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde

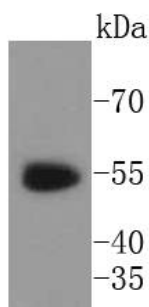


Figure 1. Western blotting validation for Anti-Wilms tumor protein WT1 Antibody A00199

Western blot analysis of Wilms Tumor Protein on human kidney lysates using anti-Wilms Tumor Protein antibody at 1/1

## 2 Publications Citing This Product

1. PubMed ID: 33562139, Dusabimana T, Park EJ, Je J, Jeong K, Yun SP, Kim HJ, Kim H, Park SW. Geniposide Improves Diabetic Nephropathy by Enhancing ULK1-Mediated Autophagy and Reducing Oxidative Stress through AMPK Activation. Int J Mol Sci. 2021 Feb 6;22(4):1651. doi:10.3390/ijms22041651.
2. PubMed ID: 23724119, Sun D, Bu L, Liu C, Yin Z, Zhou X, Li X, Xiao A. Plos One. 2013 May 28;8(5):E65042. Doi: 10.1371/Journal.Pone.0065042. Print 2013. Therapeutic Effects Of Human Amniotic Fluid-Derived Stem Cells On Renal Interstitial Fibrosis In A Murine Model Of U...

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