

### **5T4 Polyclonal Antibody**

**Purified Rabbit Polyclonal Antibody (Pab)** Catalog # AP54833

#### **Specification**

### **5T4 Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC, E

**Primary Accession** 013641

Reactivity Rat, Dog, Bovine Host Rabbit Clonality **Polyclonal** Calculated MW **43 KDa** 

**Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human TPBG/5T4

31-100/420 **Epitope Specificity** 

Isotype **Purity** affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Membrane.

**SIMILARITY** Contains 6 LRR (leucine-rich) repeats.

Contains 1 LRRCT domain. Contains 1

LRRNT domain.

Important Note This product as supplied is intended for

research use only, not for use in human,

therapeutic or diagnostic applications.

#### **Background Descriptions**

TPBG is a 420 amino acid single-pass type I membrane protein expressed by all types of trophoblasts as early as 9 weeks of development. TPBG contains an N-terminal putative signal sequence, a 310-residue extracellular region, a membrane anchorage domain and a 44-amino acid cytoplasmic tail with a potential phosphorylation site. The extracellular region has seven potential N-glycosylation sites and seven leucine-rich repeats, which are located in two regions separated by a hydrophilic stretch. Suggested to be involved in cell adhesion, TPBG may also be associated with tumor growth and progression.

## **5T4 Polyclonal Antibody - Additional Information**

## **Gene ID** 7162

#### **Other Names**

Trophoblast glycoprotein, 5T4 oncofetal antigen, 5T4 oncofetal trophoblast glycoprotein, 5T4 oncotrophoblast glycoprotein, M6P1, Wnt-activated inhibitory factor 1, WAIF1, TPBG, 5T4

#### Target/Specificity

Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a



few epithelial cell types but is found on a variety of carcinoma.

#### **Dilution**

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class
="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span>

#### Storage

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **5T4 Polyclonal Antibody - Protein Information**

#### **Name TPBG**

Synonyms 5T4

### **Function**

May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma

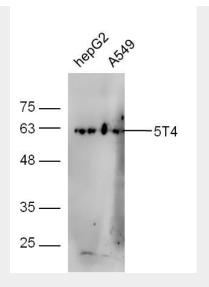
### 5T4 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## 5T4 Polyclonal Antibody - Images





# Sample:

HepG2 Cell (Human) Lysate at 30 ug A549 Cell (Human) Lysate at 30 ug

Primary: Anti-5T4 (bs-12348R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 43 kD Observed band size: 63 kD