

For Research Use Only

# TMEM165 Polyclonal antibody

Catalog Number: 20485-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 20485-1-AP	<b>GenBank Accession Number:</b> BC003545	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 µg/ml	<b>GeneID (NCBI):</b> 55858	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HC07	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> transmembrane protein 165	IF 1:200-1:800
<b>Immunogen Catalog Number:</b> AG14362	<b>Calculated MW:</b> 324 aa, 35 kDa	
	<b>Observed MW:</b> 35-40 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HeLa cells
<b>Cited Applications:</b> WB, IF, IHC	IP : HeLa cells,
<b>Species Specificity:</b> human, mouse, rat	IF : HepG2 cells, Jurkat cells
<b>Cited Species:</b> human, mouse	

## Background Information

Thiopurine methyltransferase or thiopurine S-methyltransferase (TPMT), a member of methyltransferase superfamily, is an enzyme involved in the normal metabolic inactivation of thiopurine drugs such as azathioprine, 6-mercaptopurine and 6-thioguanine. These drugs are generally used as immunosuppressants or cytotoxic drugs and are prescribed for a variety of clinical conditions including leukemia, autoimmune disease and organ transplantation. Defects in the TPMT gene leads to decreased methylation and decreased inactivation of 6MP leading to enhanced bone marrow toxicity which may cause myelosuppression, anemia, bleeding tendency, leukopenia and infection.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jee-San Lee	30015898	Oncol Rep	WB
Timothy A Reinhardt	24530912	Biochem Biophys Res Commun	WB
Jiri Stribny	32047108	J Biol Chem	WB

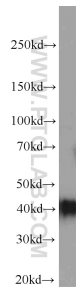
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

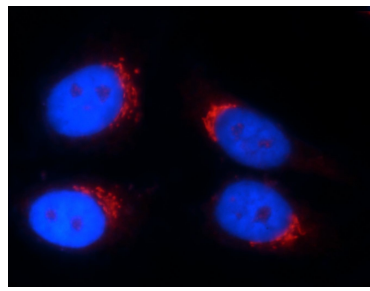
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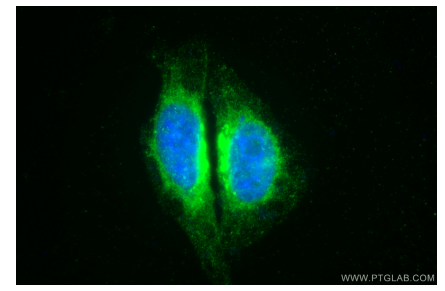
## Selected Validation Data



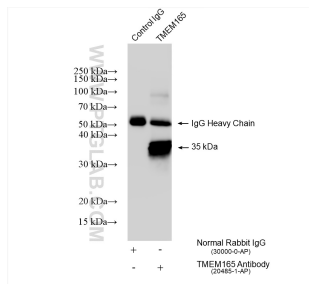
Jurkat cells were subjected to SDS PAGE followed by western blot with 20485-1-AP (TMEM165 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 20485-1-AP (TMEM165 antibody) at dilution of 1:100 and Rhodamine-labeled goat anti-rabbit IgG.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TMEM165 antibody (20485-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



IP result of anti-TMEM165 (IP:20485-1-AP, 4ug; Detection:20485-1-AP 1:1000) with HeLa cells lysate 1750 ug.