

## Anti-GTPBP9 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Dog, Cow, Sheep, Fruit Fly)
Molecular Weight:	Theoretical: 45 kDa. Actual: 50 kDa.
Purification:	Protein A purified

### Applications

- Blank control (Black line): Molt4 (Black).  
Primary Antibody (green line): Rabbit Anti-GTPBP9 antibody (TMAB-06854)  
Dilution: 1 µg / 10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647  
Dilution: 1 µg / test.  
Protocol  
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
- Sample:  
HepG2 Cell (Human) Lysate at 30 µg  
Verified Activity: TT Cell (Human) Lysate at 30 µg  
Primary: Anti-GTPBP9 (TMAB-06854) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 45 kD  
Observed band size: 50 kD
- Sample: Raji Cell (Human) Lysate at 30 µg  
Primary: Anti-GTPBP9 (TMAB-06854) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 45 kD  
Observed band size: 50 kD
- Sample: Brain (Mouse) Lysate at 40 µg  
Primary: Anti-GTPBP9 (TMAB-06854) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 45 kD  
Observed band size: 50 kD

## A DRUG SCREENING EXPERT

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Application: WB,FCM  
Recommended WB: 1:500-2000; FCM: 1µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.  
Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human GTPBP9  
Antigen Species: Human  
Gene ID: 29789  
Uniprot ID: Q9NTK5

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### Research Background

GTP-binding protein 9 is a 396 amino acid protein that belongs to the Obg-related GTPase family under the translation factors (TRAFAC) class. Originally thought to only have GTPase activity, Obg-related GTPase family members have been shown to also have ATPase activity. In Homo sapiens, GTPBP9 exhibits a preference for binding ATP over GTP, with GTP binding occurring only at high nucleotide concentration. One cause for ATP affinity and GTP discrimination is thought to be a substitution of glutamine for a hydrophobic amino acid in Obg-related family members; this is the same substitution that inactivates Ras-like GTPases. GTPBP9 contains a C-terminal TGS domain that binds to ligands and an N-terminal G domain which binds nucleotides. GTPBP9 is expressed as three isoforms produced by alternative splicing.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481