

## Anti-GPR45 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 42 kDa. Actual: 42 kDa.
Purification:	Protein A purified

## Applications

Sample:	U251 Cell (Human) Lysate at 40 µg U87mg Cell (human) Lysate at 40 µg
Verified Activity:	Primary: Anti-GPR45 (TMAB-06717) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD
Application:	WB
Recommended	WB: 1:500-2000

## 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.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GPR45
Antigen Species:	Human
Gene ID:	11250
Uniprot ID:	Q9Y5Y3

## Research Background

G protein-coupled receptors (GPRs) are a protein family of transmembrane receptors that transmit an extracellular signal (ligand binding) into an intracellular signal (G protein activation). GPR signaling is an evolutionarily ancient mechanism used by all eukaryotes to sense environmental stimuli and mediate cell-cell communication. All of the receptors have seven membrane-spanning domains and the extracellular parts of the receptor can be glycosylated. These extracellular loops also contain two highly conserved cysteine residues which create disulfide bonds to stabilize the receptor structure. GPR45, also known as PSP24-1 or PSP24- $\alpha$ , is a 372 amino acid orphan receptor that is suspected to play a role in brain function. Expressed in brain, GPR45 has been detected in the basal forebrain, frontal cortex and caudate, but not in thalamus, hippocampus or putamen.

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