

Anti-GPR58 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Pig,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 40 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Cerebellum (Mouse) Lysate at 40 µg Primary: Anti-GPR58 at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 50 kD
	2. Sample: placenta (Mouse) Lysate at 40 µg Cerebrum (Mouse) Lysate at 40 µg Primary: Anti-GPR58 (TMAB-06726) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 50 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 GPR58
Antigen Species:	Human
Gene ID:	9287
Uniprot ID:	Q9P1P5

Research Background

Trace amines are endogenous molecules structurally related to classical biogenic amines that are linked to psychiatric conditions. A family of G-protein coupled receptors referred to as trace-amine-associated receptors (TAAR) are activated by trace amines and are present in very low levels in mammalian tissue. TAARs contain several structural features that are similar to the rhodopsin beta-adrenergic receptor superfamily, including the positions of the seven transmembrane regions that provide common ligand-binding pockets as well as the short N- and C-terminal domains. TAAR proteins are potential targets for drugs of abuse, such as amphetamine and MDMA, as well as neuropsychiatric disorders including schizophrenia, depression, and attention deficit disorder. TAAR-1 is a 340

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amino acid protein that increases intracellular cAMP accumulation in response to beta-phenylethylamine and tyramine. TAAR-1 is associated with the detection of social cues, illustrating its significance as a therapeutic target.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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