

## Anti-FCER1G Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 10 kDa. Actual: 15 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample: spleen (mouse) Cell Lysate at 40 µg Primary: Anti-FCER1G (TMAB-05943) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 10 kD Observed band size: 15 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 FCER1G
Antigen Species:	Human
Gene ID:	2207
Uniprot ID:	P30273

## Research Background

IgE Fc Receptor I binds to the Fc region of immunoglobulins epsilon chain with high affinity, and is responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators such as histamines, responsible for the manifestations of allergy. IgE Fc Receptor I also induces the secretion of important lymphokines, effectors of the hypersensitivity response. It is a tetramer of a heavily glycosylated alpha chain, a beta chain, and two disulfide linked gamma chains. The gamma chains from Fc epsilon RI are also subunits of other Fc receptors. The gamma subunit is thought to be functionally significant in allowing the IgE Fc receptor to reach the cell surface. The cytoplasmic domains of the beta and gamma subunits each contain a conserved consensus sequence, ITAM, (immunoreceptor tyrosine activation motif). Phosphorylation of a pair of conserved tyrosine residues within this motif is required for signal transduction in mast cells and other hemopoietic cell types.

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