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# FcRy Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	12	Rabbit	#P30273	2207

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

## Specificity/Sensitivity

FcRy Antibody recognizes endogenous levels of total FcRy protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human FcRy protein. Antibodies are purified by peptide affinity chromatography.

## Background

FcRy (Fc receptor gamma-chain, FcεRI gamma, High affinity immunoglobulin epsilon receptor subunit gamma) is a component of the IgE Fc receptor FcεRI, a tetramer of an alpha chain, a beta chain, and two disulfide-linked gamma chains (FcRy) (1,2). FcεRI is expressed exclusively on basophils and mast cells and is involved in triggering allergic reactions (1-3). FcRy also forms signaling complexes with other Fc receptors, including FcγRIIA and FcγRIIIA. FcRy shows high homology to the T cell receptor (TCR) ζ chain (4-6) and contains an immunoreceptor tyrosine-based activation motif (ITAM) which elicits a pro-inflammatory response (1-3).

## Background References

1. Metzger, H. et al. (1986) *Annu Rev Immunol* 4, 419-70.
2. Blank, U. et al. (1989) *Nature* 337, 187-9.
3. Ra, C. et al. (1989) *J Biol Chem* 264, 15323-7.
4. Ra, C. et al. (1989) *Nature* 341, 752-4.
5. Küster, H. et al. (1990) *J Biol Chem* 265, 6448-52.
6. van Vugt, M.J. et al. (1996) *Blood* 87, 3593-9.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse

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