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Research Use Only. Not for diagnostic or therapeutic use.

# EB12555 - Goat Anti-FCGR1A/CD64 Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

**Principal Names:** FCER1A, Fc fragment of IgE, high affinity I, receptor for, alpha polypeptide, FCE1A, FcERI, Fc IgE receptor, alpha polypeptide, Fc epsilon RI alpha-chain, Fc-epsilon RI-alpha, high affinity immunoglobulin epsilon receptor alpha-subunit, high affinity immunoglobulin epsilon receptor subunit alpha, igE Fc receptor subunit alpha, immunoglobulin E receptor, high-affinity, of mast cells, alpha polypeptide

Official Symbol: FCGR1A

Accession Number(s): NP\_000557.1; NP\_001365740.1; NP\_001365737.1

Human GeneID(s): 2209

## Immunogen

Peptide with sequence C-SKTLRGRNTSSEYQ, from the internal region of the protein sequence according to NP\_000557.1; NP\_001365740.1; NP\_001365737.1.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:128000.

**Western blot:** Approx. 45kDa band observed in lysates of cell line U937, approx. 48+55kDa in Human Liver lysates, and approx. 28+48kDa in Human Tonsil lysates (calculated MW of 42.6kDa according to NP\_000557.1 and 31.0kDa according to NP\_001365740.1; NP\_001365737.1). All bands were successfully blocked by incubation with the immunizing peptide Recommended concentration: 0.01-0.5μg/ml. Primary incubation 1 hour at room temperature.

**Flow Cytometry:** Flow cytometric analysis of U937 cells. Recommended concentration: 10ug/ml.

## **Species Reactivity**

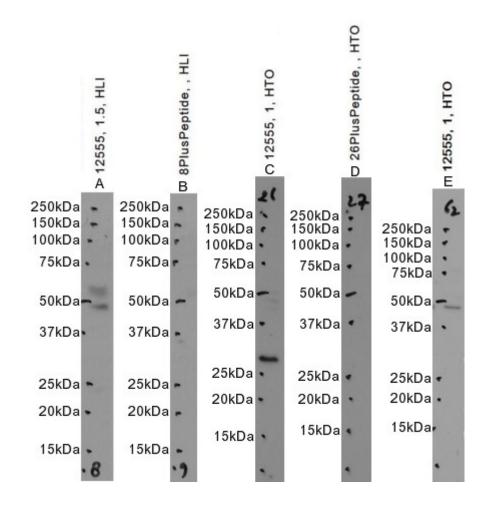
Tested: Human

Expected from sequence similarity: Human



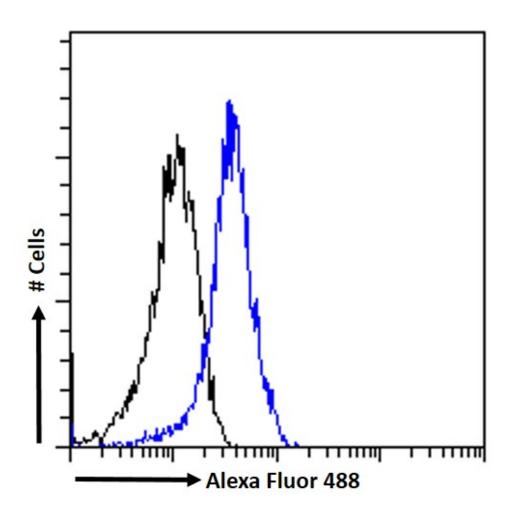
EB12555 optimised QC. Primary incubation 1 hour at room temperature.

Image A: U937 cell lysate at primary Ab concentration 1ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB12555 optimised QC. Primary incubation 1 hour at room temperature.

Images A+B: Human Liver lysate + peptide at primary Ab concentration 1.5ug/ml, Images C+D: Human Tonsil lysate 1 + peptide at primary Ab concentration 1ug/ml, Image E: Human Tonsil lysate 2 at primary Ab concentration 1ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB12555 Flow cytometric analysis of paraformaldehyde fixed U937 cells (blue line) permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488® conjugated secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.