

## Product datasheet for **UM500062CF**

### CD64 (FCGR1A) Mouse Monoclonal Antibody [Clone ID: UMAB74]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | UMAB74   |
| Applications:           | 10k-ChIP, FC, IHC, WB  |
| Recommended Dilution:   | IHC 1:100  |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human FCGR1A(NP_000557) produced in HEK293T cell.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 42.5 kDa   |
| Gene Name:              | Fc fragment of IgG receptor Ia   |
| Database Link:          | <a href="#">NP_000557</a><br><a href="#">Entrez Gene 2209 Human P12314</a>   |
| Background:             | This gene encodes a protein that plays an important role in the immune response. This protein is a high-affinity Fc-gamma receptor. The gene is one of three related gene family members located on chromosome 1. [provided by RefSeq, Jul 2008]   |



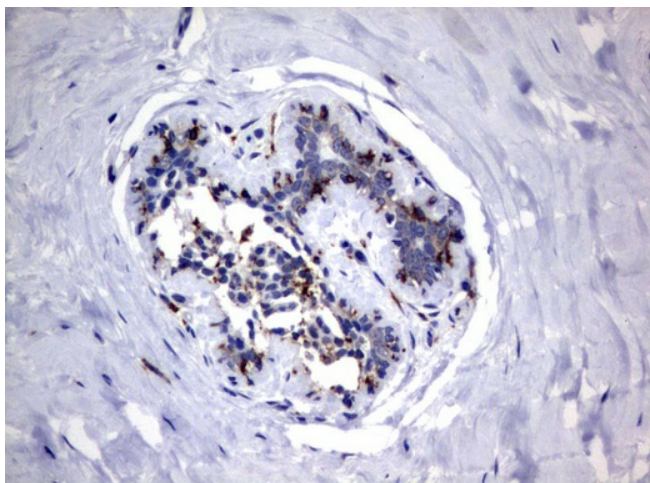
[View online >](#)

**Synonyms:** CD64; CD64A; FCRI; IGFR1

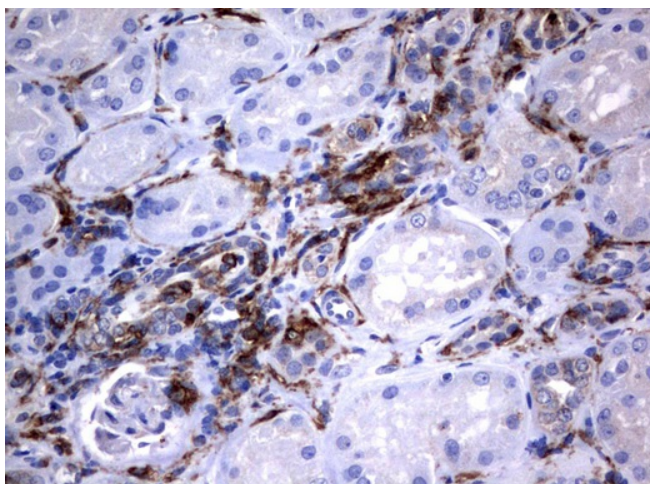
**Protein Families:** Transmembrane

**Protein Pathways:** Fc gamma R-mediated phagocytosis, Hematopoietic cell lineage, Systemic lupus erythematosus

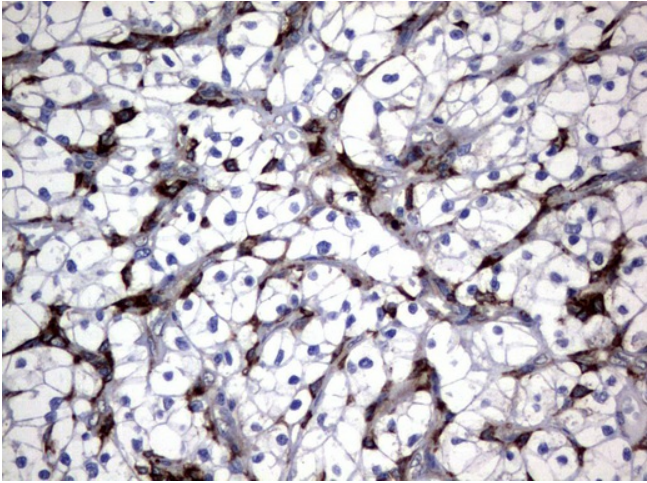
**Product images:**



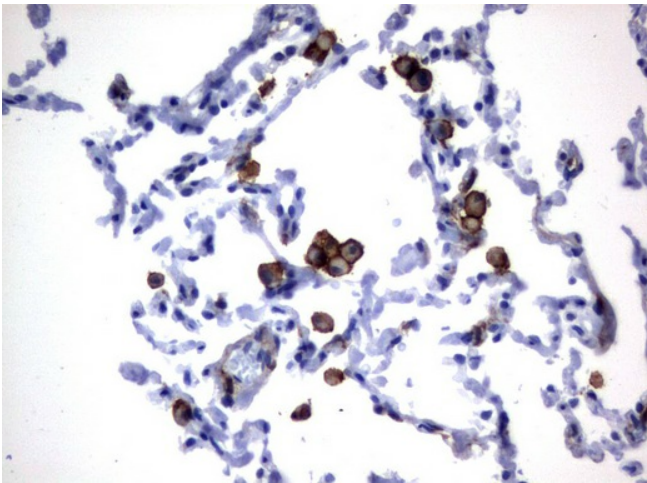
Immunohistochemical staining of paraffin-embedded Human breast tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min) (1:100)



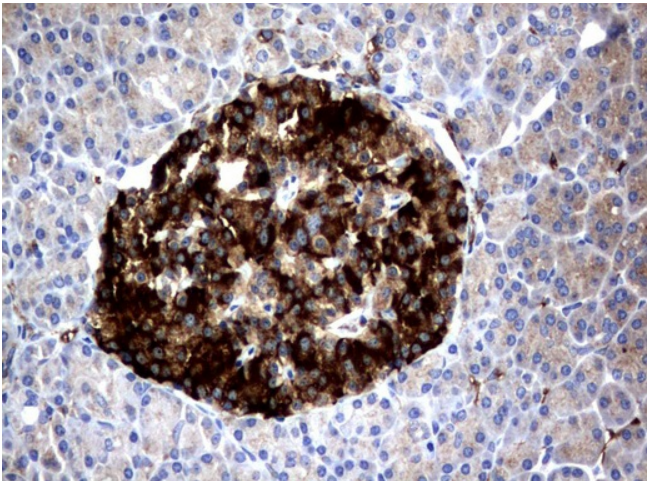
Immunohistochemical staining of paraffin-embedded Human Kidney tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min) (1:100)



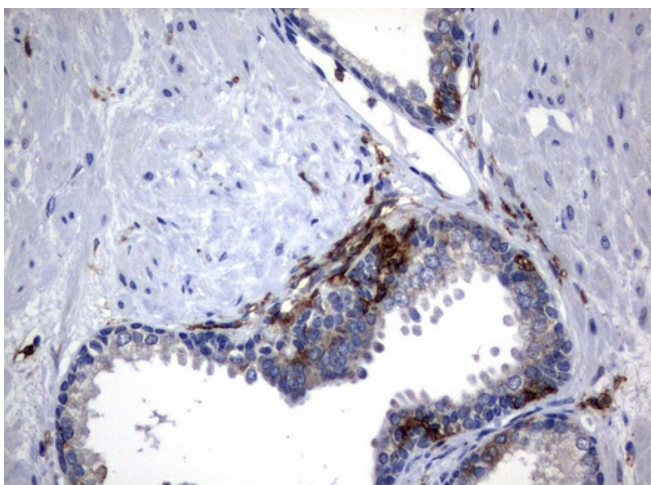
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



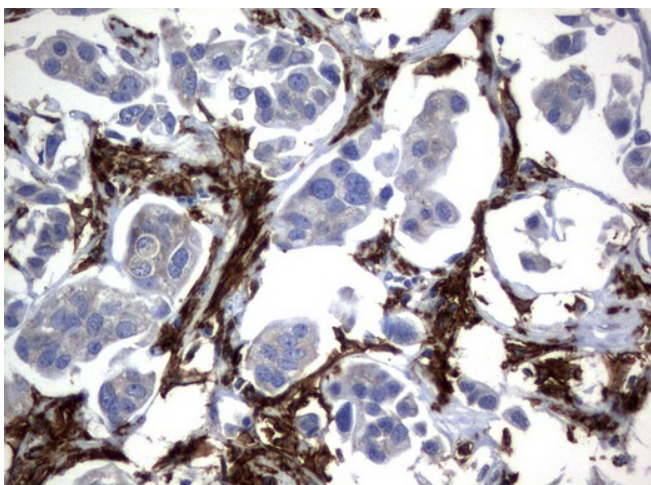
Immunohistochemical staining of paraffin-embedded Human lung tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



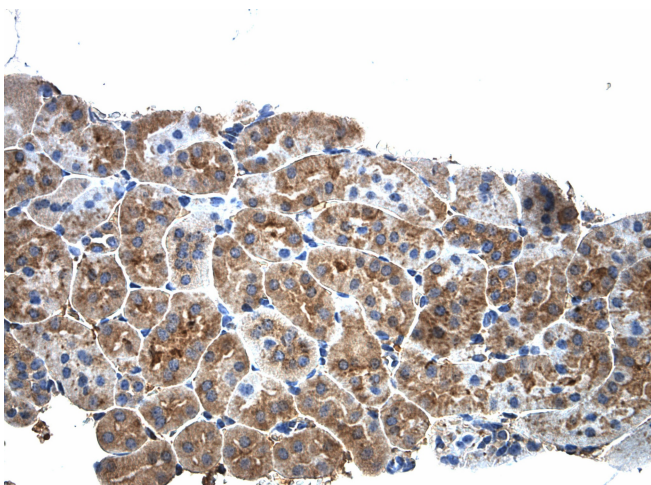
Immunohistochemical staining of paraffin-embedded Human pancreas tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



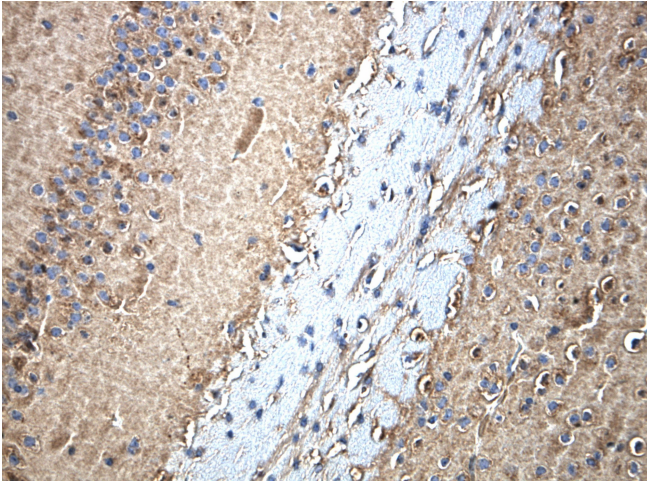
Immunohistochemical staining of paraffin-embedded Human prostate tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



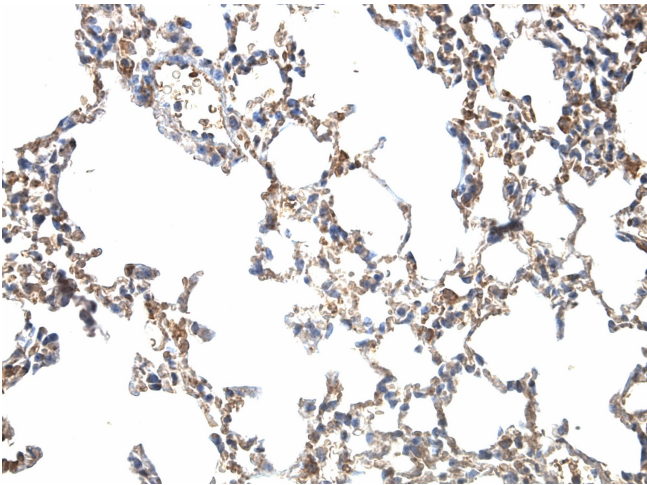
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-FCGR1A mouse monoclonal antibody. ([UM500062]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



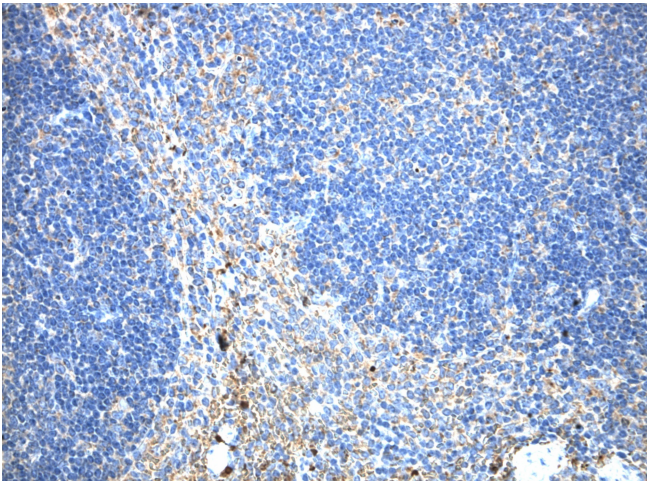
Immunohistochemical staining of paraffin-embedded mouse kidney tissue using anti-CD64 (FCGR1A) clone UMAB74 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500062] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



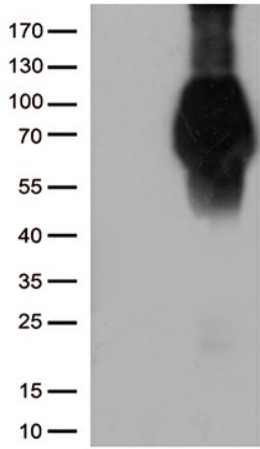
Immunohistochemical staining of paraffin-embedded mouse brain tissue using anti-CD64 (FCGR1A) clone UMAB74 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500062] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



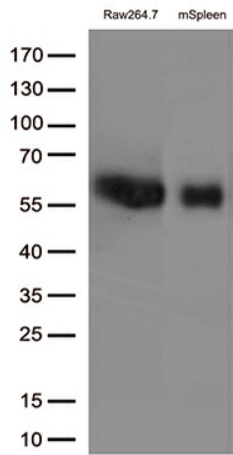
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-CD64 (FCGR1A) clone UMAB74 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500062] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-CD64 (FCGR1A) clone UMAB74 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500062] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



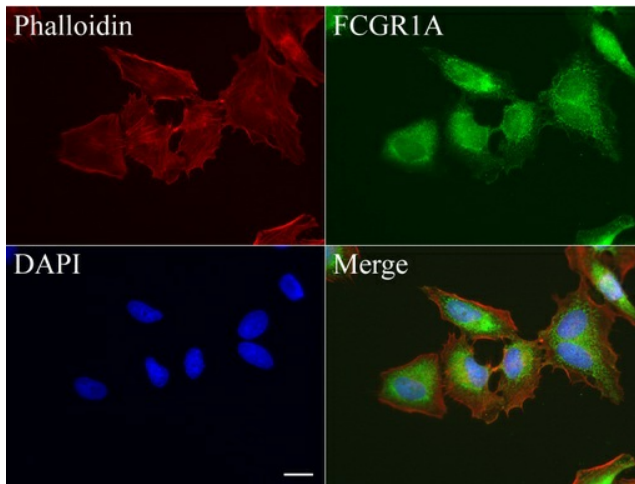
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FCGR1A ([RC207487], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FCGR1A (1:2000).



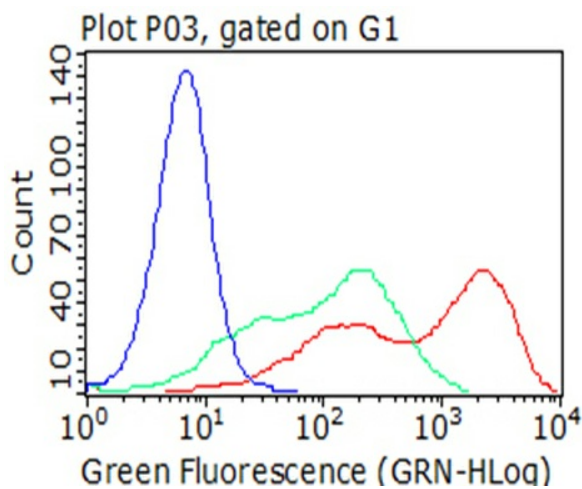
Western blot analysis of extracts (35ug) from 1 cell line and 1 tissue lysates by using anti-FCGR1A monoclonal antibody (1:500).



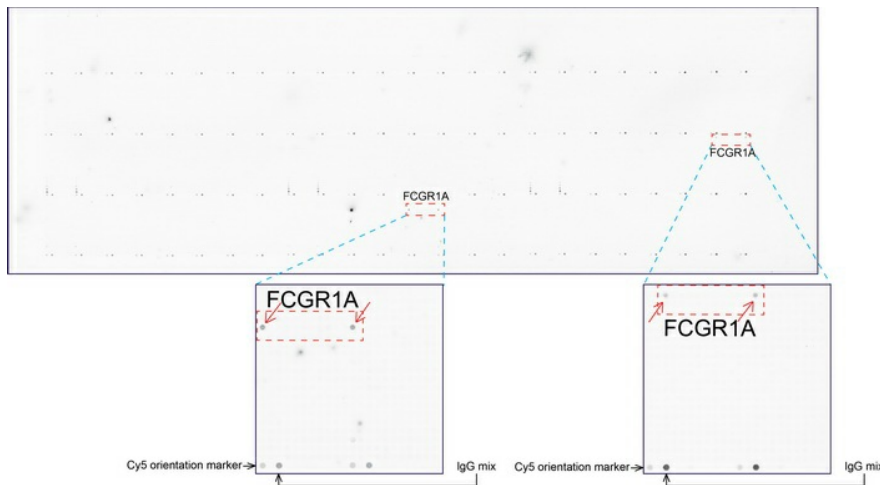
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen ). Dilution: 1:500.



Immunofluorescent staining of HeLa cells using anti-FCGR1A mouse monoclonal antibody ([UM500062], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.



Flow cytometric analysis of living 293T cells transfected with FCGR1A overexpression plasmid ([RC207487], Red)/empty vector ([PS100001], Blue) using anti-FCGR1A antibody ([UM500062]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-FCGR1A mouse monoclonal antibody ([UM500062]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.