# CRACR2A Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CRACR2A, Polyclonal Antibody |
| **Full Product Name** | CRACR2A Polyclonal Conjugated Antibody |
| **Product Gene Name** | anti-CRACR2A antibody |
| **Product Synonym Names** | CRACR2A Conjugated Antibody; EFCAB4B |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| **Purity/Purification** | Antigen affinity purification |
| **Preparation and Storage** | Store at -20 degree C for 1 year. |
| **Molecular Weight** | 83,193 Da |
| **OMIM** | 610597 |
| **3D Structure** | ModBase 3D Structure for Q9BQ67 |
| **Immunogen** | Fusion protein of human CRACR2A |
| **Conjugation** | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| **Excitation Emission** | AF350: 346nm/442nm |
| **Applications Tested/Suitable for anti-CRACR2A antibody** | Most Applications |
| **Application Notes for anti-CRACR2A antibody** | Suggested Dilution:<br>AF350 conjugated: most applications: 1:50-1:250<br>AF405 conjugated: most applications: 1:50-1:250<br>AF488 conjugated: most applications: 1:50-1:250<br>AF555 conjugated: most applications: 1:50-1:250<br>AF594 conjugated: most applications: 1:50-1:250<br>AF647 conjugated: most applications: 1:50-1:250<br>AF680 conjugated: most applications: 1:50-1:250<br>AF750 conjugated: most applications: 1:50-1:250<br>Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000 |
| **Related Product Information for anti-CRACR2A antibody** | Ca2+-binding protein that plays a key role in store-operated Ca2+entry (SOCE) in T-cells by regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca2+concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca2+resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex. |
| **Other Notes** | Small volumes of anti-CRACR2A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CRACR2A purchase** | MBS9443091 is an antibody targeting CRACR2A. Also known as CRACR2A Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRACR2A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33990978 |
| **NCBI GeneID** | 84766 |
| **NCBI Accession #** | BC004524 |
| **UniProt Primary Accession #** | Q9BQ67 |
| **UniProt Secondary Accession #** | B4E1X0; B9EK63 |
| **UniProt Related Accession #** | Q9BSW2 |
| **NCBI Official Full Name** | Homo sapiens EF-hand calcium binding domain 4B, mRNA |
| **NCBI Official Synonym Full Names** | calcium release activated channel regulator 2A |
| **NCBI Official Symbol** | CRACR2A |
| **NCBI Official Synonym Symbols** | EFCAB4B |
| **UniProt Protein Name** | Glutamate-rich WD repeat-containing protein 1 |
| **Protein Family** | EF-hand calcium-binding domain-containing protein |
| **UniProt Gene Name** | GRWD1 |
| **UniProt Synonym Gene Names** | GRWD; KIAA1942; WDR28 |
| **UniProt Entry Name** | GRWD1_HUMAN |
| **NCBI Protein Information** | EF-hand calcium-binding domain-containing protein 4B |
| **Research Articles on CRACR2A** | **1.** endothelial cells contain a long variant of CRACR2A which is an EF-hand-containing Rab protein that lacks impact on CRAC channels |
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