

# Anti-CD48 Monoclonal Antibody

Catalog # ABO14690

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC, IP                                                                                            |
| <b>Primary Accession</b> | <a href="#">P09326</a>                                                                                          |
| <b>Host</b>              | Rabbit                                                                                                          |
| <b>Isotype</b>           | Rabbit IgG                                                                                                      |
| <b>Reactivity</b>        | Human                                                                                                           |
| <b>Clonality</b>         | Monoclonal                                                                                                      |
| <b>Format</b>            | Liquid                                                                                                          |
| <b>Description</b>       | Anti-CD48 Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications.<br>This antibody reacts with Human. |

## Additional Information

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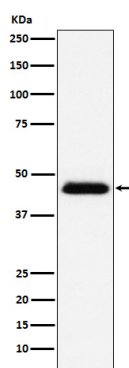
|                            |                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 962                                                                                                                                                                                                               |
| <b>Other Names</b>         | CD48 antigen, B-lymphocyte activation marker BLAST-1, BCM1 surface antigen, Leukocyte antigen MEM-102, SLAM family member 2, SLAMF2, Signaling lymphocytic activation molecule 2, TCT.1, CD48, CD48, BCM1, BLAST1 |
| <b>Calculated MW</b>       | 27683                                                                                                                                                                                                             |
| <b>Application Details</b> | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50                                                                                                                                                 |
| <b>Source</b>              | Eukaryota                                                                                                                                                                                                         |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                               |
| <b>Clone Names</b>         | Clone: AFOD-3                                                                                                                                                                                                     |
| <b>Immunogen</b>           | A synthesized peptide derived from human CD48 Ligand for CD2. Might facilitate interaction between activated lymphocytes. Probably involved in regulating T-cell activation.                                      |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                                                                                           |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                        |

## Protein Information

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| <b>Name</b>              | CD48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>          | BCM1, BLAST1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>          | Glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein that interacts via its N-terminal immunoglobulin domain with cell surface receptors including CD244/2B4 or CD2 to regulate immune cell function and activation (PubMed: <a href="#">12007789</a> , PubMed: <a href="#">19494291</a> , PubMed: <a href="#">27249817</a> , PubMed: <a href="#">9841922</a> ). Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex (PubMed: <a href="#">19494291</a> ). In turn, promotes LCK phosphorylation and subsequent activation (PubMed: <a href="#">12007789</a> ). Induces the phosphorylation of the cytoplasmic immunoreceptor tyrosine switch motifs (ITSMs) of CD244 initiating a series of signaling events that leads to the generation of the immunological synapse and the directed release of cytolytic granules containing perforin and granzymes by T-lymphocytes and NK- cells (PubMed: <a href="#">27249817</a> ). |
| <b>Cellular Location</b> | Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft. Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Tissue Location</b>   | Widely expressed on all hematopoietic cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Images



Western blot analysis of CD48 expression in Raji cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.