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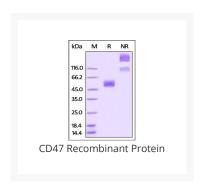12170 Flint Place
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# CD47 Recombinant Protein
**Cat. No.: 97-032**



CD47 Recombinant Protein

## Ψ Specifications

| | |
|---|---|
| **SPECIES:** | Rabbit |
| **SOURCE SPECIES:** | HEK293 cells |
| **SEQUENCE:** | Gln 19 - Glu 139 |
| **FUSION TAG:** | Fc Tag |
| **TESTED APPLICATIONS:** | WB |
| **APPLICATIONS:** | This recombinant protein can be used for WB. For research use only. |
| **PREDICTED MOLECULAR WEIGHT:** | 40.4 kDa |

## Ψ Properties

| | |
|---|---|
| **PURITY:** | >95% as determined by SDS-PAGE.<br><br>Endotoxin level is less than 1.0 EU per ug by the LAL method. |
| **PHYSICAL STATE:** | Lyophilized |
| **BUFFER:** | Tris with Glycine, Arginine and NaCl, pH7.5 |

| STORAGE CONDITIONS: | Lyophilized Protein should be stored at -20˚C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20˚C or -70˚C. Avoid repeated freeze-thaw cycles. |
|---|---|

# Ψ Additional Info

| OFFICIAL SYMBOL: | CD47 |
|---|---|
| ALTERNATE NAMES: | CD47,MER6,IAP,OA3 |
| ACCESSION NO.: | G1SKT7 |
| GENE ID: | 100355470 |

# Ψ Background and References

| BACKGROUND: | Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3, Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. |
|---|---|
| REFERENCES: | 1) Lindberg F.P., et al., 1993, J. Cell Biol. 123:485-496. |
|  | 2) Latour S., et al., 2001, J. Immunol. 167:2547-2554. |
|  | 3) Piccio L., et al., 2005, Blood 105:2421-2427. |

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