

PRODUCT INFORMATION

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| Target | CB1 |
| Synonyms | CANN6;CB-R;CB1;CB1A;CB1K5;CB1R;CNR |
| Description | Recombinant Human CB1 protein with C-terminal human Fc |
| Delivery | In Stock |
| Uniprot ID | P21554 |
| Expression Host | HEK293 |
| Tag | C-Human Fc Tag |
| Molecular Characterization | CB1(Met1-Gln116) (Asp176-Asn187) (Asn256-Glu273) (Asp366-Thr377) hFc(Glu99-Ala330) |
| Molecular Weight | The protein has a predicted molecular mass of 44.2 kDa after removal of the signal peptide. The apparent molecular mass of CB1-hFc is approximately 70-100 kDa due to glycosylation. |
| Purity | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| Storage&Shipping | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Sterility | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use. |
| Background | This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit adenylate cyclase activity in a dose-dependent, stereoselective and pertussis toxin-sensitive manner. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two different protein isoforms have been described for this gene. |
| Usage | Research use only |
| Conjugate | Unconjugated |



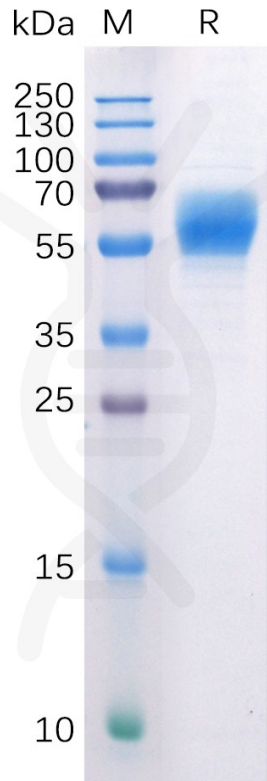


Figure 1. Human CB1 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human CB1 Protein, hFc Tagged protein ELISA

0.2 μ g of Human CB1, hFc tagged protein per well

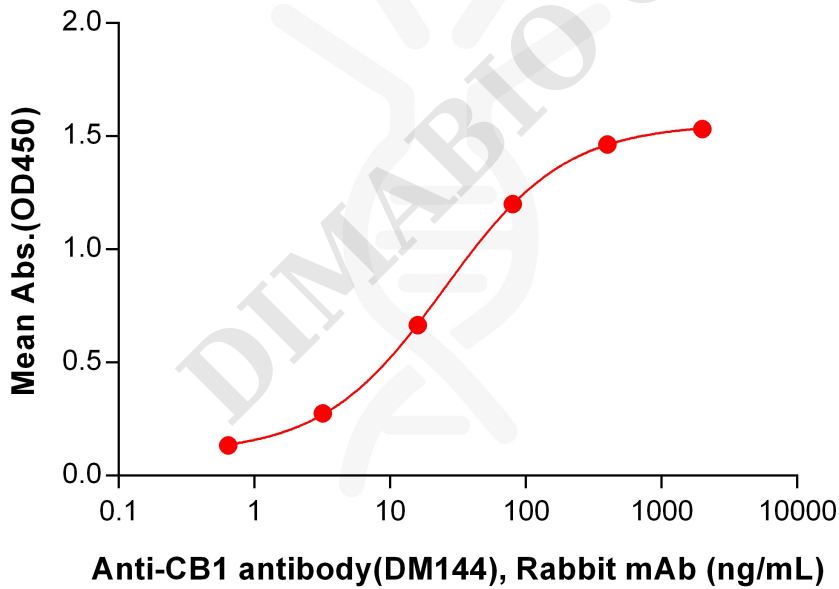


Figure 2. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CB1 Protein, hFc Tag (PME100508) can bind Anti-CB1 antibody(DM144), Rabbit mAb in a linear range of 3.20-16 ng/mL.

