

## PRODUCT INFORMATION

<b>Target</b>	CD171
<b>Synonyms</b>	CAML1;CD171;HSAS;HSAS1;MASA;MIC5;N-CAM-L1;N-CAML1;NCAM-L1;S10;SPG1
<b>Description</b>	Recombinant Human CD171 Protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P32004
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	CD171(Ile20-Glu1120) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 124.0 kDa after removal of the signal peptide. The apparent molecular mass of CD171-His is approximately 130-250 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause X-linked neurological syndromes known as CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of this gene results in multiple transcript variants, some of which include an alternate exon that is considered to be specific to neurons.
<b>Usage</b>	Research use only



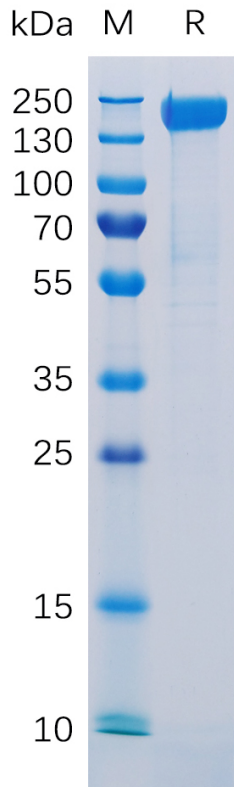


Figure 1. Human CD171 Protein, His Tag on SDS-PAGE under reducing condition.

### Human CD171, His tagged protein ELISA

0.1  $\mu\text{g}$  of Human CD171, His tagged protein per well

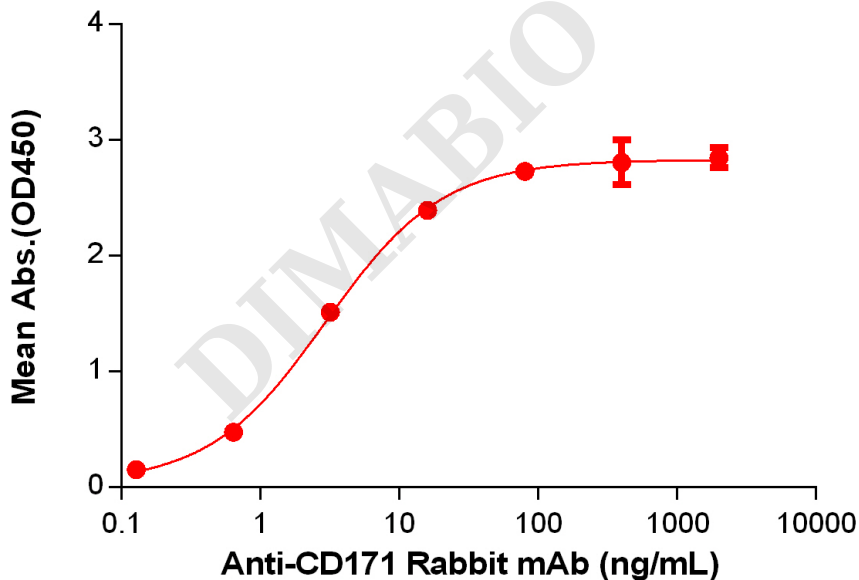


Figure 2. ELISA plate pre-coated by 1  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) Human CD171 Protein, His Tag(PME100173) can bind Anti-CD171 Rabbit mAb in a linear range of 0.64-16 ng/mL.

