

## CD316/IGSF8 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76985
Synonyms:	Immunoglobulin superfamily member 8; EWI-2; KCT-4; LIR-D1; PGRL; CD316; IGSF8
Species:	Mouse
Source:	HEK293
Accession:	Q8R366 (R26-T577)
Gene ID:	140559
Molecular Weight:	Approximately 65-77 kDa due to the glycosylation.

### PROPERTIES

AA Sequence	<p>R Q V H V P R G P L    Y R V A G T A V S I    S C N V S D Y E G P    A Q Q D F E W F M Y</p> <p>R P E A P A T S L G    I V S T K D S Q F S    Y A V F G P R V A S    G D L Q V Q R L K G</p> <p>D S V V L K I A R L    Q A Q D S G F Y E C    Y T P S T D T Q Y L    G N Y S A K V E L R</p> <p>V L P D E L Q V S A    A P P G P R G R Q A    A T S P S R L T V H    E G Q E L A L G C L</p> <p>A Q T K T K K H T H    L S V S F G R A I P    E A P V G R A T L Q    E V V G L R S D M A</p> <p>V E A G A P Y A E R    L A S G E L R L S K    E G T D R Y R M V V    G G A Q A G D S G T</p> <p>Y H C T A A E W I Q    D P D G S W V Q V A    E K R A V L A H V D    V Q T L S S Q L A V</p> <p>T V G P G E R R I G    P G E P L E L L C N    V S G A L P P P G R    H A A Y S V G W E M</p> <p>A P A G A P G P G R    L V A Q L D T E G I    G S L G P G Y E D R    H I A M E K V A S R</p> <p>T Y R L R L E A A R    P A D A G T Y R C L    A K A Y V R G S G T    R L R E A A S A R S</p> <p>R P L P V H V R E E    G V V L E A V A W L    A G G T V Y R G E T    A S L L C N I S V R</p> <p>G G P P G L R L A A    S W W V E R P E E G    E L S S G P A Q L V    G G V G Q D G V A E</p> <p>L G V R P G G G P V    S V E L V G P R S H    R L R L H G L G P E    D E G I Y H C A P S</p> <p>A W V Q H A D Y S W    Y Q A G S A R S G P    V T V Y P Y T H A V    D T</p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED <sub>50</sub>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

The CD316/IGSF8 protein appears to play a pivotal role in a variety of functions attributed to CD81 and CD9, such as oocyte fertilization and potential involvement in hepatitis C virus function. Additionally, it is implicated in regulating the proliferation and differentiation of keratinocytes and may act as a negative regulator of cell motility, suppressing T-cell mobility in coordination with CD81, associating with CD82 to suppress prostate cancer cell migration, and regulating epidermoid cell reaggregation and motility on laminin-5 with CD9 and CD81 as crucial linkers. CD316/IGSF8 might also contribute to integrin-dependent morphology and motility functions, participating in the regulation of neurite outgrowth and the maintenance of the neural network in the adult brain. Interactions with CD82, CD9/tetraspanin-29, integrin alpha-3/beta-1, and integrin alpha-4/beta-1 are suggested, with additional participation in a complex composed of CD9, PTGFRN, and CD81. Furthermore, direct interaction with CD81/tetraspanin-28 is noted, emphasizing the intricate network of associations that define the diverse roles of CD316/IGSF8 in cellular processes.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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