

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

RQVHVPRGPL	YRVAGTAVSI	SCNVSDYEGP	AQQDFEFWFM
RPEAPATSLG	IVSTKDSQFS	YAVFGPRVAS	GDLQVQRLKG
DSVVLKIARL	QAQDSGFYEC	YTPSTDTQYL	GNYS AKVELR
VLPDELQVSA	APPGPRGRQA	ATSPSRLTVH	EGQELALGCL
AQTKTKKHTH	LSVSFGRAIP	EAPVGRATLQ	EVVGLRSDMA
VEAGAPYAER	LASGELRLSK	EGTDRYRMVV	GGAQAGDSGT
YHCTAAEWIQ	DPDGSWVQVA	EKRAVLAHVD	VQTLSSQLAV
TVGPGERRIG	PGEPELELCN	VSGALPPPGR	HAAYSVGWEM
APAGAPGPR	LVAQLDTEGI	GSLGPGYEDR	HIAMEKVASR
TYRLRLEAAR	PADAGTYRCL	AKAYVRGSGT	RLREAASARS
RPLPVHVREE	GVVLEAVAWL	AGGTVYRGET	ASLLCNISVR
GGPPGLRLAA	SWWVERPEEG	ELSSGPAQLV	GGVGDGVAE
LGVRPGGGPV	SVELVGPRSH	RLRLHGLGPE	DEGIYHCAPS
AWVQHADYSW	YQAGSARSGP	VTVYPYTHAV	DT

Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED₅₀

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 ddH₂O.

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.

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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