

## Integrin alpha V beta 6 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P77721A
<b>Synonyms:</b>	CD51; Integrin alpha V beta 6; integrin subunit alpha V; ITGAV; MSK8; VNRA; VTNR
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P06756 (F31-V992)&P18564 (G22-N707)
<b>Gene ID:</b>	3685&3694
<b>Molecular Weight:</b>	Approximately 130 & 95 kDa.

### PROPERTIES

#### AA Sequence

F N L D V D S P A E	Y S G P E G S Y F G	F A V D F F V P S A	S S R M F L L V G A
P K A N T T Q P G I	V E G G Q V L K C D	W S S T R R C Q P I	E F D A T G N R D Y
A K D D P L E F K S	H Q W F G A S V R S	K Q D K I L A C A P	L Y H W R T E M K Q
E R E P V G T C F L	Q D G T K T V E Y A	P C R S Q D I D A D	G Q G F C Q G G F S
I D F T K A D R V L	L G G P G S F Y W Q	G Q L I S D Q V A E	I V S K Y D P N V Y
S I K Y N N Q L A T	R T A Q A I F D D S	Y L G Y S V A V G D	F N G D G I D D F V
S G V P R A A R T L	G M V Y I Y D G K N	M S S L Y N F T G E	Q M A A Y F G F S V
A A T D I N G D D Y	A D V F I G A P L F	M D R G S D G K L Q	E V G Q V S V S L Q
R A S G D F Q T T K	L N G F E V F A R F	G S A I A P L G D L	D Q D G F N D I A I
A A P Y G G E D K K	G I V Y I F N G R S	T G L N A V P S Q I	L E G Q W A A R S M
P P S F G Y S M K G	A T D I D K N G Y P	D L I V G A F G V D	R A I L Y R A R P V
I T V N A G L E V Y	P S I L N Q D N K T	C S L P G T A L K V	S C F N V R F C L K
A D G K G V L P R K	L N F Q V E L L L D	K L K Q K G A I R R	A L F L Y S R S P S
H S K N M T I S R G	G L M Q C E E L I A	Y L R D E S E F R D	K L T P I T I F M E
Y R L D Y R T A A D	T T G L Q P I L N Q	F T P A N I S R Q A	H I L L D C G E D N
V C K P K L E V S V	D S D Q K K I Y I G	D D N P L T L I V K	A Q N Q G E G A Y E
A E L I V S I P L Q	A D F I G V V R N N	E A L A R L S C A F	K T E N Q T R Q V V
C D L G N P M K A G	T Q L L A G L R F S	V H Q Q S E M D T S	V K F D L Q I Q S S
N L F D K V S P V V	S H K V D L A V L A	A V E I R G V S S P	D H V F L P I P N W
E H K E N P E T E E	D V G P V V Q H I Y	E L R N N G P S S F	S K A M L H L Q W P
Y K Y N N N T L L Y	I L H Y D I D G P M	N C T S D M E I N P	L R I K I S S L Q T
T E K N D T V A G Q	G E R D H L I T K R	D L A L S E G D I H	T L G C G V A Q C L
K I V C Q V G R L D	R G K S A I L Y V K	S L L W T E T F M N	K E N Q N H S Y S L
K S S A S F N V I E	F P Y K N L P I E D	I T N S T L V T T N	V T W G I Q P A P M
P V	&	G C A L G G A E T C	E D C L L I G P Q C
A W C A Q E N F T H	P S G V G E R C D T	P A N L L A K G C Q	L N F I E N P V S Q
V E I L K N K P L S	V G R Q K N S S D I	V Q I A P Q S L I L	K L R P G G A Q T L
Q V H V R Q T E D Y	P V D L Y Y L M D L	S A S M D D D L N T	I K E L G S R L S K
E M S K L T S N F R	L G F G S F V E K P	V S P F V K T T P E	E I A N P C S S I P
Y F C L P T F G F K	H I L P L T N D A E	R F N E I V K N Q K	I S A N I D T P E G
G F D A I M Q A A V	C K E K I G W R N D	S L H L L V F V S D	A D S H F G M D S K

L A G I V I P N D G	L C H L D S K N E Y	S M S T V L E Y P T	I G Q L I D K L V Q
N N V L L I F A V T	Q E Q V H L Y E N Y	A K L I P G A T V G	L L Q K D S G N I L
Q L I I S A Y E E L	R S E V E L E V L G	D T E G L N L S F T	A I C N N G T L F Q
H Q K K C S H M K V	G D T A S F S V T V	N I P H C E R R S R	H I I I K P V G L G
D A L E L L V S P E	C N C D C Q K E V E	V N S S K C H H G N	G S F Q C G V C A C
H P G H M G P R C E	C G E D M L S T D S	C K E A P D H P S C	S G R G D C Y C G Q
C I C H L S P Y G N	I Y G P Y C Q C D N	F S C V R H K G L L	C G G N G D C D C G
E C V C R S G W T G	E Y C N C T T S T D	S C V S E D G V L C	S G R G D C V C G K
C V C T N P G A S G	P T C E R C P T C G	D P C N S K R S C I	E C H L S A A G Q A
R E E C V D K C K L	A G A T I S E E E D	F S K D G S V S C S	L Q G E N E C L I T
F L I T T D N E G K	T I I H S I N E K D	C P K P P N	

<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human Fibronectin at 10 µg/mL (100 µL/well) can bind Biotinylated Integrin alpha V beta 6. The ED <sub>50</sub> for this effect is 1.008 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

The Integrin alpha V beta 5 protein, specifically the alpha-V (ITGAV) integrin subunit, serves as a versatile receptor for a range of ligands, including vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, and vWF. Recognizing the sequence R-G-D in various ligands, ITGAV:ITGB3 binds to fractalkine, acting as a coreceptor in CX3CR1-dependent fractalkine signaling. Additionally, it forms essential binding interactions with NRG1, FGF1, FGF2, IGF1, IGF2, IL1B, PLA2G2A, fibrillin-1 (FBN1), and CD40LG, contributing to diverse signaling pathways. Notably, the ITGAV:ITGB3 or ITGAV:ITGB6 complex acts as a receptor for transforming growth factor beta-1 (TGF-beta-1), mediating its release from regulatory Latency-associated peptide (LAP) and playing a crucial role in TGF-beta-1 activation. Furthermore, ITGAV:ITGB5 functions as a receptor for Adenovirus type C during microbial infection. The integrative and multifunctional nature of Integrin alpha V beta 5 underscores its pivotal role in mediating diverse cellular responses and signaling cascades.

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

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