

## Integrin alpha X beta 2 Protein, Human (HEK293, His)

**Cat. No.:** HY-P73863  
**Synonyms:** Integrin alpha X beta 2; CD11c; ITGAX; CD18; ITGB2  
**Species:** Human  
**Source:** HEK293  
**Accession:** P20702 (F20-P1107)&P05107 (Q23-N700)  
**Gene ID:** 3687&3689  
**Molecular Weight:** 130-150 kDa(ITGAX)&85-96 kDa(ITGB2) kDa

### PROPERTIES

#### AA Sequence

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A 1 :
F N L D T E E L T A   F R V D S A G F G D   S V V Q Y A N S W V   V V G A P Q K I T A
A N Q T G G L Y Q C   G Y S T G A C E P I   G L Q V P P E A V N   M S L G L S L A S T
T S P S Q L L A C G   P T V H H E C G R N   M Y L T G L C F L L   G P T Q L T Q R L P
V S R Q E C P R Q E   Q D I V F L I D G S   G S I S S R N F A T   M M N F V R A V I S
Q F Q R P S T Q F S   L M Q F S N K F Q T   H F T F E E F R R S   S N P L S L L A S V
H Q L Q G F T Y T A   T A I Q N V V H R L   F H A S Y G A R R D   A A K I L I V I T D
G K K E G D S L D Y   K D V I P M A D A A   G I I R Y A I G V G   L A F Q N R N S W K
E L N D I A S K P S   Q E H I F K V E D F   D A L K D I Q N Q L   K E K I F A I E G T
E T T S S S S F E L   E M A Q E G F S A V   F T P D G P V L G A   V G S F T W S G G A
F L Y P P N M S P T   F I N M S Q E N V D   M R D S Y L G Y S T   E L A L W K G V Q S
L V L G A P R Y Q H   T G K A V I F T Q V   S R Q W R M K A E V   T G T Q I G S Y F G
A S L C S V D V D S   D G S T D L V L I G   A P H Y Y E Q T R G   G Q V S V C P L P R
G W R R W W C D A V   L Y G E Q G H P W G   R F G A A L T V L G   D V N G D K L T D V
V I G A P G E E E N   R G A V Y L F H G V   L G P S I S P S H S   Q R I A G S Q L S S
R L Q Y F G Q A L S   G G Q D L T Q D G L   V D L A V G A R G Q   V L L L R T R P V L
W V G V S M Q F I P   A E I P R S A F E C   R E Q V V S E Q T L   V Q S N I C L Y I D
K R S K N L L G S R   D L Q S S V T L D L   A L D P G R L S P R   A T F Q E T K N R S
L S R V R V L G L K   A H C E N F N L L L   P S C V E D S V T P   I T L R L N F T L V
G K P L L A F R N L   R P M L A A D A Q R   Y F T A S L P F E K   N C G A D H I C Q D
N L G I S F S F P G   L K S L L V G S N L   E L N A E V M V W N   D G E D S Y G T T I
T F S H P A G L S Y   R Y V A E G Q K Q G   Q L R S L H L T C D   S A P V G S Q G T W
S T S C R I N H L I   F R G G A Q I T F L   A T F D V S P K A V   L G D R L L L T A N
V S S E N N T P R T   S K T T F Q L E L P   V K Y A V Y T V V S   S H E Q F T K Y L N
F S E S E E K E S H   V A M H R Y Q V N N   L G Q R D L P V S I   N F W V P V E L N Q
E A V W M D V E V S   H P Q N P S L R C S   S E K I A P P A S D   F L A H I Q K N P V
L D C S I A G C L R   F R C D V P S F S V   Q E E L D F T L K G   N L S F G W V R Q I
L Q K K V S V V S V   A E I T F D T S V Y   S Q L P G Q E A F M   R A Q T T T V L E K
Y K V H N P T P

A 2 :
Q E C T K F K V S S   C R E C I E S G P G   C T W C Q K L N F T   G P G D P D S I R C
  
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D T R P Q L L M R G	C A A D D I M D P T	S L A E T Q E D H N	G G Q K Q L S P Q K
V T L Y L R P G Q A	A A F N V T F R R A	K G Y P I D L Y Y L	M D L S Y S M L D D
L R N V K K L G G D	L L R A L N E I T E	S G R I G F G S F V	D K T V L P F V N T
H P D K L R N P C P	N K E K E C Q P P F	A F R H V L K L T N	N S N Q F Q T E V G
K Q L I S G N L D A	P E G G L D A M M Q	V A A C P E E I G W	R N V T R L L V F A
T D D G F H F A G D	G K L G A I L T P N	D G R C H L E D N L	Y K R S N E F D Y P
S V G Q L A H K L A	E N N I Q P I F A V	T S R M V K T Y E K	L T E I I P K S A V
G E L S E D S S N V	V Q L I K N A Y N K	L S S R V F L D H N	A L P D T L K V T Y
D S F C S N G V T H	R N Q P R G D C D G	V Q I N V P I T F Q	V K V T A T E C I Q
E Q S F V I R A L G	F T D I V T V Q V L	P Q C E C R C R D Q	S R D R S L C H G K
G F L E C G I C R C	D T G Y I G K N C E	C Q T Q G R S S Q E	L E G S C R K D N N
S I I C S G L G D C	V C G Q C L C H T S	D V P G K L I Y G Q	Y C E C D T I N C E
R Y N G Q V C G G P	G R G L C F C G K C	R C H P G F E G S A	C Q C E R T T E G C
L N P R R V E C S G	R G R C R C N V C E	C H S G Y Q L P L C	Q E C P G C P S P C
G K Y I S C A E C L	K F E K G P F G K N	C S A A C P G L Q L	S N N P V K G R T C
K E R D S E G C W V	A Y T L E Q Q D G M	D R Y L I Y V D E S	R E C V A G P N

<b>Biological Activity</b>	Immobilized Human ITGAX&ITGB2, His Tag at 1 µg/mL (100 µl/well) on the plate. Dose response curve for Anti-ITGB2 Antibody, hFc Tag with the EC <sub>50</sub> of 26.8 ng/mL determined by ELISA.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 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 PBS. 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-X/beta-2 protein serves as a receptor for fibrinogen, recognizing the G-P-R sequence in its ligands. Crucial for cell-cell interactions during inflammatory responses, Integrin alpha-X/beta-2 plays a particularly significant role in monocyte adhesion and chemotaxis. Structurally, it forms a heterodimer, consisting of an alpha and a beta subunit, with the alpha-X subunit associating with the beta-2 subunit. This receptor's recognition of fibrinogen and its involvement in inflammatory processes underscore its importance in facilitating immune responses, emphasizing its role in the regulation of monocyte functions and cell migration during inflammation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA