

## HER2/CD340 Protein, Canine (HEK293, His)

<b>Cat. No.:</b>	HY-P74897
<b>Synonyms:</b>	Receptor tyrosine-protein kinase erbB-2; MLN 19; CD340; ERBB2; HER2; NEU; NGL
<b>Species:</b>	Canine
<b>Source:</b>	HEK293
<b>Accession:</b>	A0A8I3NJW9 (T23-T652)
<b>Gene ID:</b>	403883
<b>Molecular Weight:</b>	75- 95 kDa

### PROPERTIES

#### AA Sequence

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

**Biological Activity** Measured by its ability to block anti-ErbB2 mediated inhibition of SK-BR-3 human breast cancer cell proliferation. The ED<sub>50</sub> this effect is 0.4594 µg/mL in the presence of 0.6 µg/mL Trastuzumab, corresponding to a specific activity is 2.177×10<sup>3</sup> units/mg.

**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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**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

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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 ErbB family consists of four separate plasma membrane-binding receptor tyrosine kinases. One of them is erbB-2, and the other members are erbB-1, erbB-3 (neuregulin-binding; Lack of kinase domains) and erbB-4. The receptor tyrosine-protein kinase erbB-2 is a protein normally found on cell membranes and is encoded by the ERBB2 gene. The human protein is also often referred to as HER 2 (Human epidermal growth factor receptor 2) or CD340 (differentiated cluster 340). HER2 has binding activity with Hsp90 protein, protein tyrosine kinase and ubiquitination protein. ErbB2 regulates differentiation and apoptosis of neural stem cells in the cochlear nucleus through PI3K/Akt pathway. HER2 is an oncogenic factor that is overexpressed in bladder cancer and activates the oncogenic signaling pathway, thereby promoting tumor cell survival/proliferation<sup>[1][2][3][4]</sup>.

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

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