



# Goat Anti-Human NRG1- beta 1 polyclonal Antibody (CABT-L3183)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Detects human NRG1- beta 1/HRG1- beta 1 EGF Domain in direct ELISAs and Western blots. In Western blots (reducing conditions), approximately 100% cross-reactivity with recombinant human HRG-alpha is observed. In direct ELISAs, approximately 5% cross-reactivity with recombinant human HRG-alpha is observed.
<b>Target</b>	Human NRG1-beta 1/HRG1-beta 1 EGF Domain
<b>Immunogen</b>	E. coli-derived recombinant human NRG1- beta 1/HRG1- beta 1 EGF Domain; Thr176-Lys246
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB, IHC, Neut
<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Format</b>	Lyophilized
<b>Size</b>	100 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None

<b>Storage</b>	Long time storage is recommended at -20°C.
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<b>Ship</b>	Wet ice
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## BACKGROUND

### Introduction

The neuregulin family of structurally related glycoproteins comprises products from four distinct but related genes, Nrg-1, Nrg-2, Nrg-3, and Nrg-4. Through alternative splicing or the use of alternative promoters, Nrg-1 has been shown to encode more than 14 soluble or transmembrane proteins. The extracellular domain of the transmembrane NRG1 isoforms can be proteolytically cleaved to release soluble growth factors. All NRG1 isoforms contain an EGF-like domain (alpha - or beta -splice variant that differ in their C-terminal region) that is required for their direct binding to the ErbB3 or ErbB4 receptor tyrosine kinases. The ErbB3 or ErbB4 subsequently recruits and heterodimerizes with ErbB2, resulting in tyrosine phosphorylation and NRG1 signaling.

### Keywords

ARIA;GGF;GGF2;HGL;HRG;HRG1;HRGA;MST131;MSTP131;NDF;neuregulin 1;Neuregulin1 beta 1;Neuregulin-1 beta 1;NRG1-IT2;SMDF