

anti- NRG1 antibody

Product Information

Catalog No.:	FNab05856
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Direct ligand for ERBB3 and ERBB4 tyrosine kinase receptors. Concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. The multiple isoforms perform diverse functions such as inducing growth and differentiation of epithelial, glial, neuronal, and skeletal muscle cells; inducing expression of acetylcholine receptor in synaptic vesicles during the formation of the neuromuscular junction; stimulating lobuloalveolar budding and milk production in the mammary gland and inducing differentiation of mammary tumor cells; stimulating Schwann cell proliferation; implication in the development of the myocardium such as trabeculation of the developing heart. Isoform 10 may play a role in motor and sensory neuron development. Binds to ERBB4(PubMed:10867024, PubMed:7902537). Binds to ERBB3(PubMed:20682778). Acts as a ligand for integrins and binds(via EGF domain) to integrins ITGAV:ITGB3 or ITGA6:ITGB4. Its binding to integrins and subsequent ternary complex formation with integrins and ERBB3 are essential for NRG1-ERBB signaling. Induces the phosphorylation and activation of MAPK3/ERK1, MAPK1/ERK2 and AKT1(PubMed:20682778). Ligand-dependent ERBB4 endocytosis is essential for the NRG1-mediated activation of these kinases in neurons(By similarity).

Immunogen information

Immunogen: neuregulin 1

Wuhan Fine Biotech Co., Ltd.

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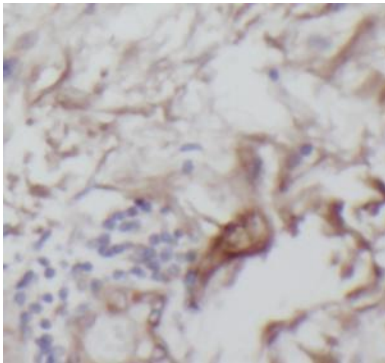
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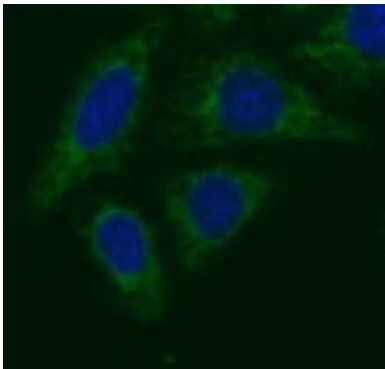
Synonyms: GGF, HGL, HRGA, NDF, SMDF
Observed MW: 55 kDa and 72 kDa
UniprotID : Q02297

Application

Reactivity: Human, Mouse
Tested Application: ELISA, WB, IHC, IF, IP
Recommended dilution: WB: 1:500-1:1000; IHC: 1:50-1:200 IP:1:500-1:2000; IF: 1:50-1:500
Image:



Immunohistochemistry of paraffin-embedded human breast cancer using FNab05856(NRG1 antibody) at dilution of 1:100



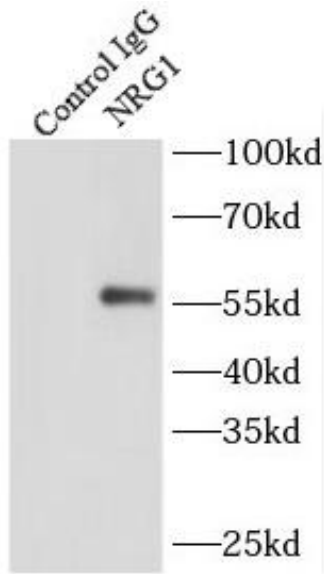
Immunofluorescent analysis of HepG2 cells using FNab05856 (NRG1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L)

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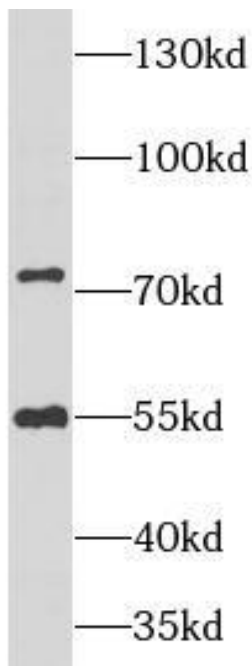
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IP Result of anti-NRG1 (IP:FNab05856, 4ug;
Detection:FNab05856 1:1000) with mouse liver
tissue lysate 4000ug.



human liver tissue were subjected to SDS PAGE
followed by western blot with FNab05856(NRG1
antibody) at dilution of 1:250