WNT2B Recombinant Polyclonal Antibody (17HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	17HCLC
Conjugate	Unconjugated
Immunogen	Peptides corresponding to Human WNT2B (aa 286-298, 253-267, 380-391)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2606216

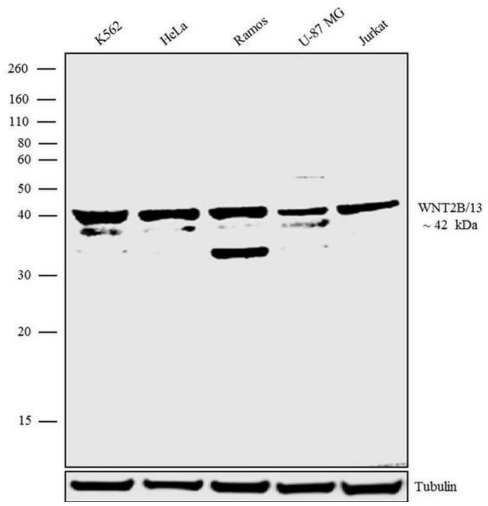
Applications	Tested Dilution	Publications
Western Blot (WB)	1- 2 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-

Product Specific Information

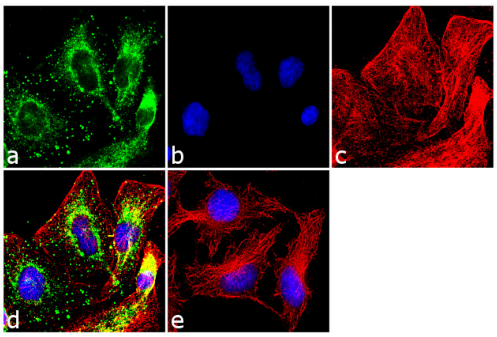
This antibody is predicted to react with Monkey, Pig and Rabbit.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

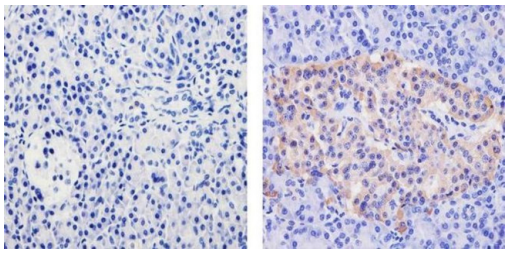
Product Images For WNT2B Recombinant Polyclonal Antibody (17HCLC)



WNT2B Antibody (710888) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of K562 (Lane 1), HeLa (Lane 2), Ramos (Lane 3), U-87 MG (Lane 4), Jurkat (Lane 5). The blots were probed with Anti-WNT2B/13 Recombinant Rabbit Polyclonal Antibody (Product # 710888, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 42 kDa band corresponding to WNT2B/13 was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



WNT2B Antibody (710888) in ICC/IF
Immunofluorescence was performed on methanol fixed MDA-MB-231 cells for detection of WNT2B/13 using Anti-WNT2B/13 Recombinant Rabbit Monoclonal Antibody (Product # 701856, 2 µg/mL), alpha-Tubulin Monoclonal Antibody (Product # 32-2500, 1 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000), Goat anti-Mouse IgG Secondary Antibody, Alexa Fluor® 594conjugate (Product # A-11032, 1:400) respectively. Panel a) shows representative cells that were stained for detection and localization of WNT2B/13 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938,). Panel c) represents cytoskeletal alpha-tubulin staining (red). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of WNT2B/13. Panel e) represents control cells with no primary antibody to assess background.



WNT2B Antibody (710888) in IHC (P)
Immunohistochemistry analysis of Wnt 2B/13 showing staining in the cytoplasm and nucleus of paraffin-embedded human pancreas tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Wnt 2B/13 Recombinant Rabbit Polyclonal Antibody (Product # 710888) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37ºC in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on thermofisher.cn

2 References

Western Blot (1)

The Journal of clinical investigation

Noggin regulates foregut progenitor cell programming, and misexpression leads to esophageal atresia.

"710888 was used in Western Blot, Immunohistochemistry to indicate that NOG is a critical regulator of cell fate decisions between esophageal and pulmonary morphogenesis, and its lack of expression results in EA/TEF."

Authors: Pinzon-Guzman C,Sangadala S,Riera KM,Popova EY,Manning E,Huh WJ,Alexander MS,Shelton JS,Boden SD,Goldenring JR

Year
2020

Species
Human
Mouse

Dilution
1:500
1:500

Immunohistochemistry (1)

The Journal of clinical investigation

Noggin regulates foregut progenitor cell programming, and misexpression leads to esophageal atresia.

"710888 was used in Western Blot, Immunohistochemistry to indicate that NOG is a critical regulator of cell fate decisions between esophageal and pulmonary morphogenesis, and its lack of expression results in EA/TEF."

Authors: Pinzon-Guzman C,Sangadala S,Riera KM,Popova EY,Manning E,Huh WJ,Alexander MS,Shelton JS,Boden SD,Goldenring JR

Year
2020

Species
Human
Mouse

Dilution
1:500
1:500