



Anti-human Wnt5a

20190801BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-PA141S
Size:	100 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human Wnt5a (Ile62-Lys380) derived from E. coli.

Target Background

Synonyms:	Protein Wnt-5a
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Wnt-5a is one of the most highly investigated non-canonical Wnts and has been implicated in almost all aspects of non-canonical Wnt signalling. In terms of cancer development, Wnt-5a has, until recently, lived in the shadow of its better-characterised relatives. This was largely because of its apparent inability to transform cells or signal through the canonical beta-catenin pathway that is so important in cancer, particularly colorectal cancer. Recent work in a wide range of human tumours has pointed to a critical role for Wnt-5a in malignant progression, but there is conflicting evidence whether Wnt-5a has a tumour-promoting or -suppressing role. Emerging evidence suggests that the functions of Wnt-5a can be drastically altered depending on the availability of key receptors. Hence, the presence or absence of these receptors may go some way to explain the conflicting role of Wnt-5a in different cancers.

Database References Antigen

Protein RefSeq:	NP_003383.2
Uniprot ID:	P41221
mRNA RefSeq:	NM_03392.4

Product Specifications

Species reactivity	human
Clone/Ab feature	rabbit IgG
Cross reactivity	n.d.
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	recombinant human Wnt5a (RT #400-023)
Formulation	Lyophilized
Buffer	5 mM PBS, pH 7.2

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!

References

1. Clark CC et al, Genomics 18(2):249-60, 1993
2. Kremenevskaja N et al, Oncogene 24(13):2144-54, 2005
3. Dissanayake SK, J Biol Chem 282(23):17259-71, 2007
4. Person AD et al, Dev Dyn 239(1):327-37, 2010
5. Jönsson M and Andersson T, J Cell Sci 114(Pt 11):2043-53, 2001
6. McDonald SL and Silver A, Br J Cancer 101(2):209-14, 2009

Applications

Western Blot: Use at 1-5 µg/ml

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

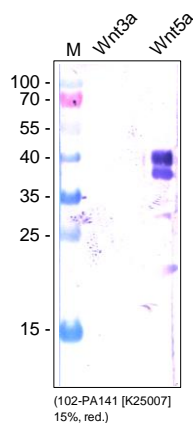


Fig. 1: Western analysis of recombinant human Wnt3a [Cat# 400-022] and Wnt5a [Cat# 400-023] using an anti-human Wnt5a polyclonal antibody. There is no cross reaction to recombinant human Wnt3a.

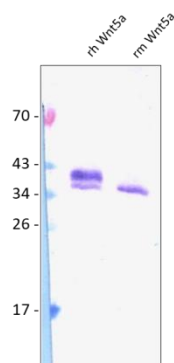


Fig. 2: Western analysis of recombinant human and mouse Wnt5a [Cat# 400-023; M30-023] using a rabbit anti-human Wnt5a antibody [Cat# 102-PA141] directed against recombinant human Wnt5a. As expected there is a cross reactivity with mouse Wnt5a. As secondary antibody an AP-conjugated goat anti-rabbit antibody was used.