



Anti-mouse Wnt5a

20190801BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-PA16
Size:	200 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Purified from sera of rabbits pre-immunized with pure (>85%) recombinant mouse Wnt5a (Ser19 –Lys352) 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-characterized 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.

References

1. Prasad CP et al, Cancer Metastasis Rev, 37(4):767-778, 2018
2. Shi YN et al, Clin Chim Acta, 471:263-269, 2017
3. Zhou Y et al, Stem Cells Int, . 5295286, 2017
4. Zeng R et al, Med Sci Monit, 22:5058-5067, 2016.
5. Pashirzad M et al, J Cell Physiol, 232(7):1611-1616, 2017
6. Asem MS et al, Cancers (Basel), 8(9), 2016
7. Endo M et al, Int Rev Cell Mol Biol, 117-48, 2015
8. Murdoch CE et al, Biochem Soc Trans, 42(6):1665-70, 2014
9. Kikuchi A et al, Acta Physiol (Oxf), 204(1):17-33, 2012

Database References Antigen

Protein RefSeq:	NP_033550.2
Uniprot ID:	P22725
mRNA RefSeq:	NM_009524.3

Product Specifications

Species reactivity	mouse
Clone/Ab feature	Rabbit IgG
Cross reactivity	ND
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	Recombinant mouse Wnt5a (RT #M30-023)
Formulation	lyophilized
Buffer	PBS

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!

Applications

Western Blot: Use 1-5 µg/ml

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



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Handling/Applications

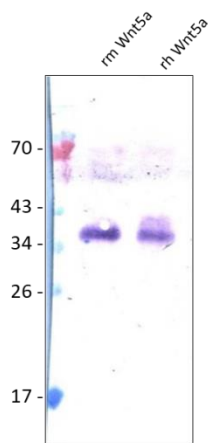


Fig. 1: Western analysis of recombinant mouse and human Wnt5a [Cat# M30-023; 400-023] using a rabbit anti-mouse Wnt5a antibody [Cat# 103-PA16] directed against recombinant mouse Wnt5a protein. As expected there is a strong cross reactivity with human Wnt5a. As secondary antibody an AP-conjugated goat anti-rabbit antibody was used.