



Qty: 1 mL

Mouse anti- WNT3

Catalog No. 39-0300

Lot No.

Mouse anti- WNT3

FORM

This monoclonal antibody is supplied as a 1 mL aliquot of tissue culture supernatant containing 0.1% sodium azide.

CLONE: 4F10-1D2

ISOTYPE: Mouse IgG₁.kappa

IMMUNOGEN

Recombinant protein corresponding to the mid region of the human WNT3 protein

SPECIFICITY

This antibody is specific for the mid region of the WNT3 protein. On Western blots, it identifies a band at ~40 kDa. It does not react with WNTs 1, 2, 4, 5, and 6.

REACTIVITY

Reactivity has been confirmed with human WNT3 transfected 293 cells. Based on amino acid sequence homology, this antibody may also crossreact with mouse and rat WNT3a.

Sample	Western Blotting	ELISA
Human	+++	ND
Mouse	+++	ND
Rat	+++	ND
Immunogen	ND	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 1:100 - 1:1000
Western Blotting: 1:30 - 1:100

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

The WNT gene family consists of structurally related genes, which encode secreted signaling proteins.¹ WNT proteins have been implicated in oncogenesis²⁻³ and in several developmental processes, including regulation of cell fate and patterning during embryogenesis.

The mouse studies show the requirement of WNT3 in primary axis formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway.³

REFERENCES

1. Cadigan KM, et al. *Genes Dev* 11: 3286-305, 1997.
2. Polakis P et al. *Genes Dev* 14: 1837-51, 2000.
3. Kato M, *Int J Oncol* 19: 977-82, 2001.

RELATED PRODUCTS

<u>Product</u>	<u>Conjugate</u>	<u>Cat. No.</u>
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

<u>Conjugate</u>	<u>ZyMAX[™] Goat x Rabbit IgG (H+L)</u>	<u>ZyMAX[™] Goat x Mouse IgG (H+L)</u>
Purified	81-6100	81-6500
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Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
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