

Product datasheet for **DM3608P**

Wif1 Rat Monoclonal Antibody [Clone ID: 3M51]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3M51
Applications:	WB
Recommended Dilution:	Western Blot: 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant WIF-1.
Specificity:	This antibody detects Mouse of WIF-1 in Western blotting.
Formulation:	Lyophilized from PBS State: Purified State: Lyophilized purified IgG fractionh from Culture Supernatant Stabilizer: None
Reconstitution Method:	Restore with 200 µl sterile PBS and the final concentration is 500 µg/ml.
Purification:	Affinity Chromatography on Protein A/G
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Wnt inhibitory factor 1
Database Link:	Entrez Gene 24117 Mouse Q9WUA1



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Background:

WIF-1 (Wnt Inhibitory Factor 1) is a secreted protein that binds to Wnt proteins and inhibits their activity. In situ hybridization analysis in *Xenopus laevis* and zebrafish indicate that the message is highly expressed in presomitic mesoderm, the notochord, anterior regions of the brain, branchial arches, nasal placodes, and otic vesicles. WIF-1 inhibits secondary axis induction by Wnts and promotes secondary axis induction by Chordin in *Xenopus* embryos. In vitro, WIF-1 binds to *Drosophila* Wingless and *Xenopus* Wnt8 proteins. WIF-1 is implicated as an early event tumor suppressor in cancers of the prostate, breast, lung, and bladder, while in other cancer types, such as colon adenocarcinoma, WIF-1 facilitates tumorigenesis. WIF-1 is also expressed in mammalian retina and may play a role in photoreceptor development. The protein is synthesized as a 379 amino acid (aa) molecule that contains a signal sequence, a 150 aa WIF domain, 5 EGF-like repeats, and a hydrophilic domain at the carboxy terminus.

Synonyms:

WIF-1, UNQ191/PRO217