

ROR2 Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 34045
Clone no.: ROR2 2535-2835
Size: 100ug in PBS, pH 7.4.
Purified by Protein G affinity chromatography.

SPECIFICATION SUMMARY

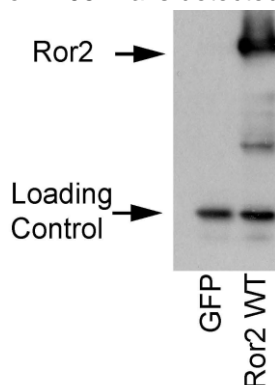
Antigen: Bases 2535-2835 of mouse ROR2 fused in-frame to MBP and expressed in *E. coli*.
Host Species: Mouse
Antibody Class: IgG1
Specificity: Mouse and human ROR2. Does not cross-react with ROR1.

BACKGROUND

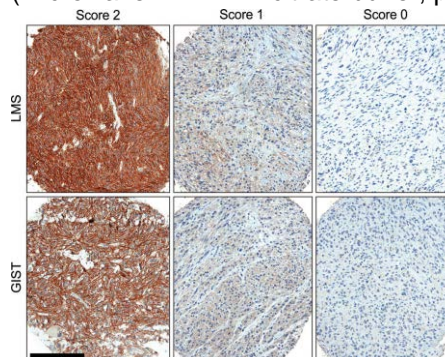
Receptor tyrosine kinases (RTKs) are cell surface receptors that regulate normal cellular processes through ligand-controlled tyrosine kinase activity. ROR2 is a membrane-bound RTK that is activated by Wnt signaling during normal bone and cartilage development. Recently, ROR2 has been shown to have pro-tumorigenic effects in osteosarcoma, melanoma, and renal cell carcinoma cell lines. ROR2 levels have also been described in soft-tissue sarcomas; specifically, *in vitro* studies revealed that invasive abilities of leiomyosarcoma (LMS) and gastrointestinal stromal tumor (GIST) are affected by ROR2 expression, and suppression of ROR2 reduces *in vivo* tumor mass in a xenotransplantation model of LMS.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~105kDa is detected.



Immunohistochemistry: use at 1-10ug/ml on paraformaldehyde-fixed, paraffin-embedded sections following antigen retrieval (microwave 12 min in citrate buffer, pH 6.0).



Detection of ROR2 in LMS and GIST. Samples were scored 2 (strong staining), 1 (weak staining), or 0 (absence of staining). See reference Edris B. et al.

These are recommended concentrations. Enduser should determine optimal concentrations for their application.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

PRODUCT REFERENCES

Mikels A et al. 2009 J Biol Chem 284: 30167-30176.
Wright TM et al. 2009 Oncogene 28: 2513-2523.
Edris B et al. 2012 J Pathol 227: 223-233

For in vitro investigational use only. Not for use in diagnostic or therapeutic applications.