Anti-human ROR2

20150602BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**102-PA143S**
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 ROR2 (Glu34-Gly132) derived from insect cells.

Target Background

Synonyms:	Adipocyte lipid-binding protein, Fatty acid-binding protein 4, Adipocyte-type fatty acid-binding protein

ROR2 is a signaling receptor for Wnt ligands that is known to play important roles in limb development, but having no essential roles known in adult tissues. Recent evidence has implicated ROR2 in mediating both canonical and non-canonical signaling pathways. ROR2 was initially found to be highly expressed in osteosarcoma and renal cell carcinomas, and has recently been found in an increasingly long list of cancers currently including melanoma, colon cancer, melanoma, squamous cell carcinoma of the head and neck, and breast cancer. In the majority of these cancer types, ROR2 expression is associated with more aggressive disease states, consistent with a role mediating Wnt signaling regardless of the canonical or non-canonical signal. Because of the pattern of tissue distribution, the association with high-risk diseases, and the cell surface localization of this receptor, ROR2 has been identified as a potential high value target for therapeutic development. However, the recent discovery that ROR2 may function through non-kinase activities challenges this strategy and opens up opportunities to target this important molecule through alternative means.

References

1. Debede Z & Rathmell EK, Pharmacol Ther, pii: S0163-7258, 2015
2. Rasmussen NR et al, PLoS One, e116101, 2014
3. Mei H et al, Biochem Biophys Res Commun; 453(4):703-9, 2014
4. Sun B et al, Int J Clin Exp Pathol; 8(1):856-61, 2015
5. Roarty K et al, J Cell Biol; 208(3):351-66, 2015
6. Henry C et al, J Cancer Res Clin Oncol; 243-54, 2015
7. DeChiara TM et al, Nat Genet; 24(3):271-4, 2000

Database References Antigen

Protein RefSeq:	NP_004551.2
Uniprot ID:	Q01974
mRNA RefSeq:	NM_004560.3

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 sROR2 (RT #S01-074)
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!

Applications

Western Blot:	Use at 1-5 µg/ml

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

Anti-human ROR2

Handling/Applications

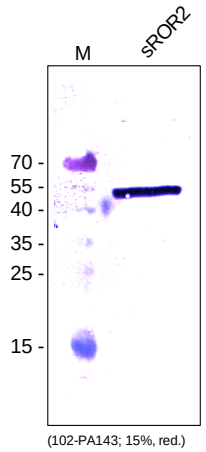

Fig. 1: Western analysis of recombinant human soluble ROR2 [Cat# S01-074] using a rabbit polyclonal anti-human ROR2 antibody [Cat# 102-PA143]. [WB: AP-conjugated secondary antibody]