BACKGROUND

ROR2 (receptor tyrosine kinase-like orphan receptor 2), also known as neu-rotrophin tyrosine kinase receptor-related 2 (NTRKR2), is a single pass trans-membrane tyrosine-protein kinase receptor. It contains a cytoplasmic tyro-sine kinase domain, distally located serine-threonine-rich domains, an extra-cellular immunoglobulin-like domain, a cysteine-rich domain and a kringle domain. ROR2 is important for skeletal and endocrine development and is required for cartilage and growth plate development. It promotes the differ-entiation of osteoblasts and plays an important role in the early formation of chondrocytes. ROR2 sequesters and associates with Dlxin-1 affecting the transcriptionsal function of Msx-2. ROR2 also interacts with canonical Wnt-1 and Wnt-3, regulating their signaling pathways. Defects in ROR2 can result in the autosomal dominant skeletal disorder, brachydactyly type B1, or the autosomal recessive skeletal disorder, Robinow syndrome.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: ROR2 (human) mapping to 9q22.31.

SOURCE

ROR2 (HX07) is a mouse monoclonal antibody raised against an extracellular domain of ROR2 of human origin.

PRODUCT

Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

ROR2 (HX07) is recommended for detection of ROR2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non cross-reactive with ROR1.

Suitable for use as control antibody for ROR2 siRNA (h): sc-72390, ROR2 shRNA Plasmid (h): sc-72390-SH and ROR2 shRNA (h) Lentiviral Particles: sc-72390-V.

Molecular Weight of ROR2: 120 kDa.

SELECT PRODUCT CITATIONS


STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.