

ROS1 Polyclonal antibody

Catalog Number: 26960-1-AP

Basic Information

Catalog Number:

26960-1-AP

Size:

150ul

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25722

GenBank Accession Number:

NM_002944

GeneID (NCBI):

6098

Full Name:

c-ros oncogene 1, receptor tyrosine kinase

Calculated MW:

264 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Species Specificity:

human

Background Information

ROS1, an orphan receptor tyrosine kinase of the insulin receptor family, was initially identified as a homolog of v-ros from the UR2 sarcoma virus (PMID: 3023956). Investigators have found that rearrangements of the ROS1 gene occur in many cancers. The first oncogenic fusion of ROS1, FIG-ROS1, was initially identified by research studies in glioblastoma (PMID: 12661006), and subsequent studies have found this fusion in cholangiocarcinoma, ovarian cancer and non-small cell lung cancer (NSCLC) (PMID: 21253578, 22163003, 22661537). Additional oncogenic ROS1 fusion proteins have been found in NSCLC (at a frequency of 1-2%), including FIG, CD74, SLC34A2 and SDC4, and the list is growing. CD74-ROS1 is the most frequently detected ROS1 fusion in this group of patients. With all of the known fusion genes, the ROS1 kinase domain is fully retained and the ROS1 junction point at the messenger RNA (mRNA) level invariably occurs at the 5' end of exons 32, 34, 35 or 36 (PMID: 27535289). The molecular mass of some ROS1 fusion proteins are detected as follows: FIG-ROS1 (110 kDa), SLC34A2-ROS1 (85/70/59 kDa), CD74-ROS1 (80 kDa), and SDC4-ROS1 (75 kDa). (PMID: 22661537, 22659450)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:

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