Human DAB2 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_3 Clone # 883216

Catalog Number: FAB8064N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DAB2 in ELISA and Western Blot.
Source	Monoclonal Mouse IgG_3 Clone # 883216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DAB2 Lys630-Ala770 Accession # P98082
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DAB2 (Drosophila disabled homolog 2; also DOC-2/Differentially-expressed in Ovarian Carcinoma and p96) is a cytoplasmic phosphoprotein. Although the predicted MW is 82 kDa, it runs anomalously at 95-105 kDa in SDS-PAGE. It is widely expressed, being found in ovarian cuboidal epithelium, megakaryocytes, fibroblasts, macrophages, breast epithelium and renal proximal tubule cells. Reduced expression levels are associated with tumor development. DAB2 has multiple functions, but is typically described as an adaptor protein (i.e.-one that supports the apposition of two interacting molecules) involved in intracellular trafficking. Molecules reported to interact with DAB2 include megalin, SMAD2 plus TGF-βRI/II, axin and Dvl3. With respect to trafficking, DAB2 reportedly binds to AP-2, clathrin, LRP6 and myosin VI, four molecules associated with the endocytic process. Human DAB2 is 770 amino acids (aa) in length. It contains one pleckstrin homology-like domain that binds phosphotyrosine (aa 42-170) and a C-terminal Pro-rich region that binds SH3 domains (aa 600-630). There are two isoform variants. One is 80-82 kDa in size and shows a deletion of aa 230-447. The second exhibits a short deletion of aa 209-229. Over aa 630-770, human DAB2 shares 76% aa sequence identity with mouse DAB2.

PRODUCT SPECIFIC NOTICES

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