

Human EDIL3 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 670421

Catalog Number: FAB6046V

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human EDIL3 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human MGF-E8 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 670421
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human EDIL3 Val17-Glu480 Accession # 043854
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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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

EGF-like repeat and discoidin I-like domain-containing protein 3 (EDIL3; also Del-1 and integrin-binding DEL1) is a 52 kDa extracellular matrix protein that is expressed by endothelial tissues during embryonic vascular development (1). Human EDIL3 is synthesized as a precursor with a 16 amino acid (aa) signal sequence and a 464 aa mature chain. The mature chain is composed of three epidermal growth factor (EGF) repeats and two discoidin-I-like domains (1). The second EGF repeat contains an RGD motif (1). Splicing variants produce two isoforms for human EDIL3. Isoform 2 has an A->G substitution at aa 66 and a deletion of aa 67-76 found in isoform 1. Mature human EDIL3 shares 96% aa sequence identity with mature mouse EDIL3. The RGD motif of EDIL3 binds ανβ5 integrin, which, in turn, leads to increased angiogenic transcription factor HoxD3 expression (2). HoxD3activates ανβ3 and uPA, resulting in the transformation of resting endothelial cells to an angiogenic state (2-4). EDIL3 becomes quiescent at the time of birth, and is no longer expressed in normal adult tissues. It has been found, however, re-expressed in a number of human tumors as well as in ischemic muscles and ischemic brain tissue, which may play an important role in adult angiogenesis (2, 5-6). EDIL3 promotes adherence and migration of endothelial cells, and acts as an endothelial cell survival agent through upregulation of BcI-2 expression (7). Exogenous application of EDIL3 has been demonstrated to augment angiogenesis and improve blood flow and tissue function in murine models of hind-limb ischemia (6, 8), cardiac ischemia (9) and cerebral ischemia (2). EDIL3 has also been shown to be an endogenous inhibitor of inflammatory cell recruitment by interfering with the integrin LFA-1-dependent leukocyte-endothelial adhesion (10).

PRODUCT SPECIFIC NOTICES

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