

Human ULBP-4/RAET1E Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6285G 100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ULBP-4/RAET1E in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) ULBP-1, rhULBP-2, and rhULBP-3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ULBP-4/RAET1E Gly30-Asp225 Accession # Q8TD07
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

ULBP-4 (UL16 binding protein 4; also NKG2D Ligand 4, Latel and RAET1E) is a 30-40 kDa glycoprotein member of the MHC Class I family of molecules. It has widespread tissue expression, and is particularly prominent on tumor cells. ULBP4 is a monomeric, non-antigen presenting MHC molecule that does not interact with β_2 -microglobulin. It is a ligand for both TCRy δ and homodimeric NKG2D, the latter which appears on NK, CD8⁺ and $\gamma\delta$ T cells. NKG2D ligation induces cellular cytotoxicity and cytokine secretion. Mature human ULBP4 is a 234 amino acid (aa) type I transmembrane protein. It contains a 196 aa extracellular region (aa 30-225), and a short 15 aa cytoplasmic domain. Multiple splice variants exist. One shows a five aa substitution for aa 208-263, a second shows a deletion of aa 28-63, a third shows a two aa substitution for aa 208-263, while a fourth possesses an 18 aa substitution for Gly30. Soluble ULBP4 is described to be 35 kDa in size. There is no reported rodent counterpart to ULBP4.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/16/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956