

### 30-2529: Anti-GRAP2 PE (Clone : UW40)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	UW40
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Gene :</b>	GRAP2
<b>Gene ID :</b>	9402
<b>Alternative Name :</b>	GADS, GRID, GRAP-2, GrbX, GRB2 related adaptor protein 2
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	GST-fusion human GRAP2/GADS protein

#### Description

GRAP2/GADS (Grb2-related adaptor protein 2 / Grb2-related adaptor downstream of Shc) is a cytoplasmic adaptor protein containing N- and C-terminal SH3 domains flanking a central SH2 domain and a proline/glutamine-rich region. It is expressed predominantly in lymphoid tissue and hematopoietic cells, particularly in T cells. GRAP2/GADS plays a pivotal role during the early events of T cell signal transduction by recruiting the adaptor protein SLP-76 and its associated molecules, such as Vav, Nck, Itk, and ADAP, to the transmembrane adaptor protein LAT. GRAP2/GADS also binds several other signaling proteins, namely Gab2, HPK1 (hematopoietic progenitor kinase 1), and Cbl. Unlike similar adaptor protein Grb2, GRAP2/GADS shows higher selectivity when binding to the particular phosphorylated tyrosines of LAT adaptor.

Specificity : The mouse monoclonal antibody UW40 recognizes GRAP2/GADS, a 41 kDa cytoplasmic adaptor protein that plays a pivotal role during the early events of signal transduction in T cells.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. 0.1 mg/ml
<b>Content :</b>	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
<b>Storage condition :</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

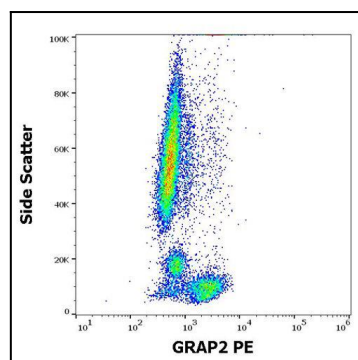


Figure 1 : Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human GRAP2(UW40) PE antibody (concentration in sample 1,7 µg/ml).

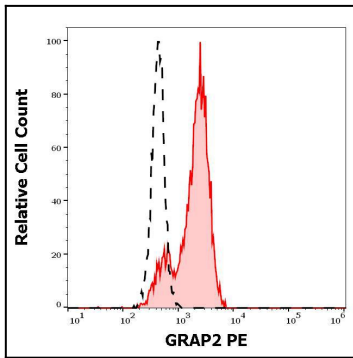


Figure 2 : Separation of lymphocytes stained using anti-human GRAP2 (UW40) PE antibody (concentration in sample 1,7 µg/ml, red-filled) from lymphocytes stained using mouse IgG2a isotype control (MOPC-173) PE antibody (concentration in sample 1,7 µg/ml, same as GRAP2 PE concentration, black-dashed) in flow cytometry analysis (intracellular staining) of peripheral blood.