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30-2258: PE Conjugated, Anti-GCPII / PSMA Monoclonal Antibody (Clone:GCP-05)

Clonality :	Monoclonal
Clone Name :	GCP-05
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	FOLH1
Gene ID :	2346
Uniprot ID :	Q04609
Alternative Name :	FOLH1,FOLH,NAALAD1,PSM,PSMA,GIG27
Isotype :	Mouse IgG1
Immunogen Information :	amino acids 44-750 of human GCPII

Description

Glutamate carboxypeptidase II (GCPII), also known as N-acetyl-alpha-linked acidic dipeptidase I (NAALADase I), folate hydrolase (FOLH1), and prostate-specific membrane antigen (PSMA), is an approximately 95-110 kDa type II transmembrane glycoprotein expressed in various tissues. In nervous system GCPII cleaves abundant N-acetylaspartylglutamate, which is released from neurons in a calcium-dependent manner, to N-acetylaspartate and glutamate. As immoderate glutamate concentration is neurotoxic, GCPII contributes to pathological conditions regarding e.g. Alzheimer´s disease, Huntington´s disease, epilepsy, schizophrenia, stroke or neuropathic pain and appears to be an interesting therapeutic target. In jejunum GCPII hydrolyzes pteroylpoly-gamma-glutamate to folate and glutamate, enabling folate to be absorbed by gastrointestinal tract. GCPII, which is present in a number of tissues at low levels, is overexpressed in neovasculature of most solid tumours and is a target enzyme for diagnosis and treatment of prostate cancer. Normal human prostate express more mRNA coding for a cytosolic GCPII form truncated at the N-terminus (PSM´) than mRNA for membrane-bound GCPII, and this ratio is reversed upon malignant transformation.

Product Info

Amount :	0.1 mg
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

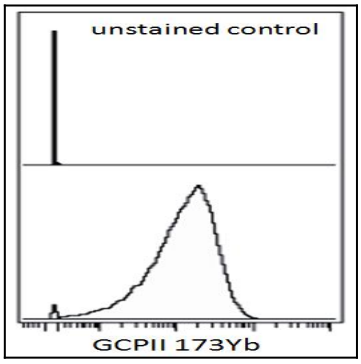


Figure 1: Surface staining (mass cytometry) of LNCaP cell line using anti-GCPII (GCP-05) 173Yb. Gated on singlets.

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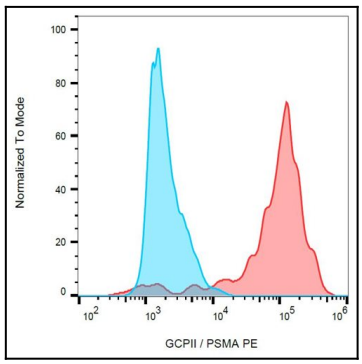


Figure 2: Separation of LNCaP cells (red) from SP2 cells (blue) in flow cytometry analysis (surface staining) stained using anti-PSMA (GCP-05) PE antibody

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