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Plant Cell Compartment Antibody Marker Set | 5 antibodies

Qty: SA000002

SA000002 | Clonality: **Polyclonal** | Host: **Rabbit** | Reactivity: **higher plants and algae**

This set includes five discounted, compartment marker antibodies of your choice.
Benefits of using this antibody set

Related products:
SA000001 | Plant Cell Compartment Antibody Marker Set | 3 antibodies
SA000003 | Plant Cell Compartment Antibody Marker Set | 10 antibodies

Price: 1319 €

Following antibodies can be purchased as a part of Plant Cell compartment antibody marker set (one of each)

Cell wall

CesA4 (IRX5) | Cellulose synthase A catalytic subunit 4 [UDP-forming]

CesA7 (IRX3) | Cellulose synthase A catalytic subunit 7 [UDP-forming]

CesA8 (IRX1) | Cellulose synthase A catalytic subunit 8 [UDP-forming]

Chloroplast

CRD1 | cyanobacterial homolog of plant CHL27 cyclase – Thylakoid and envelope membranes | 40 kDa

Cyt c6 | thylakoid lumen cytchrome c6 protein – Thylakoid lumen | 15 kDa

PC | plastocyanin – Thylakoid lumen | 35 kDa

PGL35 | plastoglobulin 35 – Plastoglobules | 35 kDa

PRK ribulose-5-P-kinase | phosphoribulokinase – Thylakoid membrane 28-30 kDa

PsbA | D1 protein of PSII, C-terminal – Stroma | 52.7 kDa

PsbA | D1 protein of PSII, C-terminal (100 µl) – Inner envelope membrane | 45 kDa

PsbA | D1 protein of PSII, phosphorylated – Outer envelope membrane | 75 kDa

Tic40 | chloroplast inner envelope membrane translocon complex protein (200 µl) – Outer envelope membrane | 75 kDa

Toc75 | Protein TOC75-3, chloroplastic, POTRA domain 3

FNR | Ferredoxin NADP Reductase (root) plastidial marker (roots)

Cytoplasm

ACT | Actin| 45 kDa

cFBPase | cytosolic fructose-1,6-bisphosphatase (cytoplasm marker in photosynthetic tissues) | 37 kDa

NAB1 | nucleic acid binding protein 1, Chlamydomonas | 26 kDa (*Chlamydomonas reinhardtii*)

RbcL | Rubisco large subunit, form I and form II (50 µl) | 52.5 kDa (cyanobacteria)

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SPS | sucrose phosphate synthase, global | 120-130 kDa

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UGPase | UDP-glucose pyrophosphorylase (cytoplasm marker) | 51.6 kDa

ER

BiP | lumenal-binding protein | 80 kDa

HDEL | endoplasmic reticulum retention signal (100 µg) | – Integral ER membrane protein | 38 kDa

KDEL | endoplasmic reticulum retention signal (50 µg) | 21 kDa

NAI2 | TSA1-like protein (ER lumen marker)

Sar1 | secretion-associated and Ras-related protein 1

SMT1 | Sterol methyltransferase 1

PYK10 | Beta-Galactosidase (internal) (ER marker, immunolocalisation)

Golgi

Arf1 | ADP-ribosylation factor 1 | 21 kDa

Sec21p | gamma subunit, COP vesicles | 98 kDa

Microsomal membrane

CNX1/2 | CALNEXIN HOMOLOG 1/2 – Microsomal membrane marker | 58 kDa

Mitochondria

AOX1 | alternative oxidase 1 – Mitochondrial inner membrane | 36 kDa (for Chlamydomonas)

AOX1/2 | plant alternative oxidase 1 and 2 – Mitochondrial inner membrane | 36-40 kDa (for *Arabidopsis thaliana*)

COXII cytochrome oxidase subunit II – Mitochondrial inner membrane| 30 kDa (for *Arabidopsis thaliana*)

COXIIb | cytochrome oxidase subunit II b – Mitochondrial inner membrane| 15 kDa

GDC-H | H protein of glycine decarboxylase complex (GDC) – Mitochondrial matrix | 16 kDa

Idh | isocitrate dehydrogenase – Mitochondrial matrix | 45 kDa

SHMT | serine hydroxymethyltransferase – Mitochondrial matrix | 53 kDa

VDAC1 | voltage-dependent anion-selective channel protein 1 – Mitochondrial outer membrane | 29 kDa

Nuclei

H3 | histone H3 – Nuclear marker 17 kDa

Peroxisome

Cat | Catalase (peroxisomal marker)

DEG15 | endopeptidase, peroxisomal marker

HPR | hydroxypyruvate reductase (peroxisomal matrix marker)

Pex14p | peroxisomal marker

Plasma membrane

H+ATPase | plasma membrane H+ATPase| 95 kDa

Vacuole

V-ATPase | epsilon subunit of tonoplast H+ATPase

V-ATPase | epsilon subunit of tonoplast H+ATPase (200 µl) | 31 kDa

Note: presented MW is for a respective protein in *Arabidopsis thaliana*

References: Wulfetange et al. (2011). Cytokinin receptors of *Arabidopsis* are located mainly to the endoplasmic reticulum. Plant Physiology, 156 (4):1808-1818.

VPS35 | Vacuolar protein sorting-associated protein 35B (marker of PVC)

Agrisera Western Blot protocol and video tutorials

Protocols to work with plant and algal protein extracts

Agrisera Educational Posters Collection