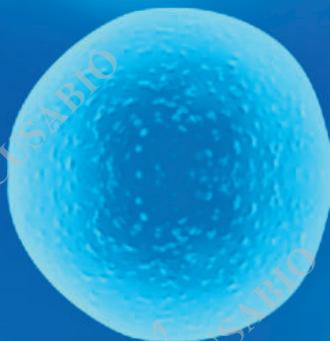




THE COLLECTION OF ORGANELLE MARKERS

YOUR GOOD PARTNER IN BIOLOGY RESEARCH



Nucleolus

Both animal and plant cells contains a nucleolus, which is a small body in the nucleus of a cell that contains protein and RNA and is the site for the synthesis of ribosomal RNA and for the formation of ribosomal subunits.

Marker	Code	Species Reactivity	Applications
CD3EAP	CSB-PA004932LA01HU	Human, Rat	ELISA, WB, IHC, IF

Nuclear membrane

The nuclear membrane is the membrane inside a cell around the nucleus. It has the genetic material (chromosomes and DNA) and the nucleolus inside it. The membrane forms a double layer called the nuclear envelope.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
LMNA	CSB-PA013003HA01HU	Human, Rat	ELISA, WB, IHC, IF	NUP98	CSB-PA016209LA01HU	Human	ELISA, WB, IF, IP
LMNB1	CSB-PA10169A0Rb	Human	ELISA, IHC	SUN1	CSB-PA24689A0Rb	Arabidopsis thaliana	ELISA, WB

Ribosome

A tiny, somewhat mitten-shaped organelle occurring in great numbers in the cell cytoplasm either freely, in small clusters, or attached to the outer surfaces of endoplasmic reticula, and functioning as the site of protein manufacture.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
RPL26	CSB-PA020207LA01HU	Human	ELISA, IHC, IF	RPS6	CSB-PA020463LA01HU	Human	ELISA, IHC, IF
RPL7A	CSB-PA020303LA01HU	Human, Mouse	ELISA, WB, IHC				

Endoplasmic reticulum

The endoplasmic reticulum (ER), an organelle, is an interconnected network of flattened sacs or tubes encased in membranes. These membranes are continuous, joining with the outer membrane of the nuclear membrane. All eukaryotic cells contain an ER, except red blood cells and sperm cells.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
CALR	CSB-PA004458YA01HU	Human, Mouse	ELISA, WB, IHC, IF	MED37A	CSB-PA888748LA01DOA	Arabidopsis thaliana	ELISA, WB
CANX	CSB-PA00899A0Rb	Human	ELISA, WB, IHC, IF	P4HB	CSB-PA00254A0Rb	Human, Mouse	ELISA, WB, IHC
HSPA5	CSB-PA05027A0Rb	Human	ELISA, WB, IHC, IF				

Golgi apparatus

Golgi apparatus, also called Golgi complex or Golgi body, membrane-bound organelle of eukaryotic cells (cells with clearly defined nuclei) that is made up of a series of flattened, stacked pouches called cisternae.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
B4GALT6	CSB-PA871391LA01HU	Human	ELISA, WB	MAN2A1	CSB-PA613697LA01HU	Human	ELISA, WB, IHC, IF
FTCD	CSB-PA009029ESR2HU	Human	ELISA, WB, IHC	STX6	CSB-PA022902DA01HU	Human	ELISA, IHC
GOLGA2	CSB-PA600856ESR1HU	Human	ELISA, IHC				

Cytoskeleton

A cytoskeleton is present in the cytoplasm of all cells, including bacteria and archaea. It is a complex, dynamic network of interlinking protein filaments that extends from the cell nucleus to the cell membrane.

Marker	Code	Species Reactivity	Applications
ACTA2	CSB-PA12659A0Rb	Human	ELISA, IHC

Mitochondrion

Mitochondrion, membrane-bound organelle found in the cytoplasm of almost all eukaryotic cells (cells with clearly defined nuclei), the primary function of which is to generate large quantities of energy in the form of adenosine triphosphate (ATP).

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
AIFM1	CSB-PA001492HA01HU	Human	ELISA, WB, IHC, IF	HK1	CSB-PA010468HA01HU	Human, Rat	ELISA, WB
AOX1	CSB-PA24692A0Rb	Chlamydomonas reinhardtii	ELISA, WB	MT-CO1	CSB-PA015072LA01HU	Human	ELISA, IHC, IF
AOX1A	CSB-PA655106LA01DOA	Arabidopsis thaliana	ELISA, WB	PHB	CSB-PA017885LA01HU	Human	ELISA, WB, IHC, IP
CPS1	CSB-PA005913LA01HU	Human	ELISA, WB, IHC, IF, IP	VDAC1	CSB-PA025821PA01HU	Human	ELISA, IHC

Centrosome

Centrosome is an organelle near the nucleus in the cytoplasm, which contains the centrioles (in animal cells) and from which the spindle fibers develop in cell division.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
NINL	CSB-PA896492ESR1HU	Human	ELISA, IHC	TUBG1	CSB-PA025334LA01HU	Human	ELISA, WB, IHC

Chromatin

Chromatin is a mass of genetic material composed of DNA, proteins and RNA that condense to form chromosomes during eukaryotic cell division. Chromatin is located in the nucleus of our cells.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
HIST1H2BB	CSB-PA010402HA01HU	Human, Mouse, Rat	ELISA, WB, IHC, IF	TERF1	CSB-PA023386ESR2HU	Human	ELISA, WB, IHC
HIST1H3A	CSB-PA010418PA09nacHU	Human, Mouse	ELISA, WB, IHC, IF, ChIP	TERF2IP	CSB-PA878922DSR2HU	Human	ELISA, IHC
HIST1H4A	CSB-PA010429PA08nacHU	Human, Mouse, Rat	ELISA, WB, IHC, IF, IP, ChIP				

Note: these targets have a lot of modified polyclonal antibodies, including Acetyl-, Butyryl-, Malonyl-, Crotonyl-, β -hydroxybutyryl and Malonyl- and so on.

Endosome

Endosome, formed by a complex family of processes collectively known as endocytosis, is a membrane-bound vesicle. It can be found in the cytoplasm of virtually every animal cell. The basic mechanism of endocytosis is the reverse of what occurs during exocytosis or cellular secretion.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
AP2S1	CSB-PA02604A0Rb	Human	ELISA, IHC, IF	EEA1	CSB-PA007405LA01HU	Human	ELISA, WB, IHC, IF
CLTB	CSB-PA03147A0Rb	Human	ELISA, IHC				

Exosome

Exosome, described as such 30 years ago firstly, is released from cells upon fusion of an intermediate endocytic compartment, the multivesicular body (MVB), with the plasma membrane.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
CD81	CSB-PA004960NA01HU	Human	ELISA, WB, IHC, IF	CD9	CSB-PA10559A0Rb	Human, Mouse	ELISA, IHC

Peroxisome

Peroxisome, a membrane-bound organelle occurring in the cytoplasm of eukaryotic cells, contains enzymes that oxidize certain molecules normally found in the cell, notably fatty acids and amino acids.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
ACOT8	CSB-PA001170LA01HU	Human	ELISA, IHC	HPR	CSB-PA24659A0Rb	Arabidopsis thaliana	ELISA, WB
CAT1	CSB-PA822149LA01DOA	Arabidopsis thaliana	ELISA, WB	PEX3	CSB-PA017804ESR1HU	Human, Mouse	ELISA, WB, IHC
DEG15	CSB-PA819818LA01DOA	Arabidopsis thaliana	ELISA, WB	PEX14	CSB-PA867033LA01DOA	Arabidopsis thaliana	ELISA, WB
GLO1	CSB-PA862860LA01DOA	Arabidopsis thaliana	ELISA, WB				

Chloroplast

Chloroplast, a type of plastid—a round, oval, or disk-shaped body, structure within the cells of plants and green algae that is the site of photosynthesis. The main function of chloroplast is photosynthesis.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
At1g32060	CSB-PA326237OA01DOA	Arabidopsis thaliana	ELISA, WB	PAP1	CSB-PA529312LA01DOA	Arabidopsis thaliana	ELISA, WB
CRD1	CSB-PA862988LA01DOA	Arabidopsis thaliana	ELISA, WB	PETE	CSB-PA365424HA01FKI	Spinacia oleracea	ELISA, WB

Cell Wall

A cell wall is a rigid, semi-permeable protective layer in some cell types. This outer covering is positioned next to the cell membrane (plasma membrane) in most plant cells, fungi, bacteria, algae, and some archaea.

Marker	Code	Species Reactivity	Applications
CESA4	CSB-PA771138PA01DOA	Arabidopsis thaliana	ELISA, WB

Vacuole

A vacuole is an organelle in cells which functions to hold various solutions or materials. In plants, a large vacuole occupies the majority of the cell. There are two functions in plant cells.

Marker	Code	Species Reactivity	Applications	Marker	Code	Species Reactivity	Applications
BG2	CSB-PA327203LA01DOA	Arabidopsis thaliana	ELISA, WB	CHN48	CSB-PA362364LA01NHE	Nicotiana tabacum	ELISA, WB



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