

Loading Control Antibody Sampler Kit

Cat# AK0185

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Housekeeping proteins perform numerous basic functions within the cell and are constitutively expressed at high levels in a variety of tissues and cell types. Western blot analysis commonly uses housekeeping proteins such as β -actin, COX IV, GAPDH, histone H3 and the α - and β -tubulins as loading controls. Actin is a ubiquitous protein and a major component of the eukaryotic cytoskeleton. Actin exists mainly as the F-actin fibrous polymer. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. Recent work has demonstrated that GAPDH plays roles in apoptosis, gene expression, and nuclear transport. Globular tubulin subunits made up of α - and β -tubulin heterodimers are the building blocks of microtubules, one of three types of cytosolic fibers that comprise the cytoskeleton. Histone proteins, including histone H3, make up the primary building block of chromatin known as nucleosomes. Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. Cytochrome c oxidase (COX) is a hetero-oligomeric enzyme consisting of 13 subunits localized to the inner mitochondrial membrane. It is the terminal enzyme complex in the respiratory chain, catalyzing the reduction of protons across the mitochondrial inner membrane to drive ATP synthesis.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340488	COX4I1 Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human	Rabbit
A340173	beta Tubulin Polyclonal Antibody	20 μ L	WB	Human, Mouse, Rat	Rabbit
A340546	Histone H3 Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A340172	GAPDH Polyclonal Antibody	20 μ L	WB, IHC	Human, Mouse, Rat, Monkey, Chicken, Rabbit, Sheep, Xenopus	Rabbit

A340171	beta actin Polyclonal Antibody	20μL	WB, IHC	Human, Mouse, Rat, Monkey, Chicken, Rabbit, Sheep, Xenopus	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.