

Cytos™ Protein Panel Targets

Overview

The Cytos protein panels are 4-plex protein panels designed for use in a Cytos cell screening run with an AVITI24™ system. Each set in the protein panel is grouped based on fluorescent probe color compatibility.

The Cytos protein panels are all validated in human cell lines and are available in five sets grouped by a focus area—Immunology, Morphology (includes expanded, alternative and neuro), and Cell Signaling. Use the [ElemBio Cloud Custom Designer™](#) to select panels and design your cell screening run.

This reference document provides a list of protein targets included in each of the Cytos protein panels. The [Protein Catalog](#) provides further details on each of the protein panels. Refer to the [Cytos Protein User Guide \(MA-00095\)](#) for instructions on using Cytos protein panels for a cell screening run.

Cytos Protein Panels

Cytos protein panels are compatible only with the Cytos Protein Cartridge and must not be added directly to the Cytos Optical Pooled Screen (OPS) or 3' Transcriptome Cartridges. To generate protein data along with an OPS or 3' transcriptome run, the protein panel is run separately on a Cytos Protein Cartridge first, followed by a second, sequential run of the Cytos OPS or 3' Transcriptome Cartridge.

Protein targets for the five 4-plex Cytos protein panels are listed in the following tables.

Cytos Protein Neuro Morphology Panel

Part # 860-00070

Name	Contents	Probe Color
Neuro Morphology Set 1	NPM1	Red
	βIII-tubulin	Green
Neuro Morphology Set 2	GFAP	Red
	MAP2	Green

Cytos Protein Expanded Morphology Panel

Part # 860-00071

Name	Contents	Probe Color
Expanded Morphology Set 1	GM130	Red
	ERp57	Green
Expanded Morphology Set 2	α-tubulin	Red
	LAMP2	Green

Cytos Protein Alternative Morphology Panel

Part # 860-00072

Name	Contents	Probe Color
Alternative Morphology Set 1	Lamin A/C	Red
	Histone	Green
Alternative Morphology Set 2	β -Actin	Red
	Na ⁺ /K ⁺ ATPase	Green

Cytos Protein Immune Subtyping Panel

Part # 860-00073

Name	Contents	Probe Color
Immune Subtyping Set 1	CD8A	Red
	CD4	Green
Immune Subtyping Set 2	CD3E	Red
	CD19	Green

Cytos Protein Cell Signaling Panel

Part # 860-00075

Name	Contents	Probe Color
Cell Signaling Set 1	Phospho-ERK1 (T202) + Phospho-ERK2 (T185)	Red
	ERK1 + ERK2	Green
Cell Signaling Set 2	Phospho-HSP27 (S78)	Red
	Phospho-p38 (T180)	Green

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