

Procarta™ Transcription Factor Assay Kit

Product Insert

Cat. Nos. PC5900–PC5936

About the Procarta Transcription Factor Assay

Procarta Transcription Factor assays combine two technologies: Panomics' patent-pending detection probe separation method and xMAP® (multi-analyte profiling beads). Together, these two technologies enable the quantitative measurement of DNA binding activity of up to 40 transcription factors from as little as 500 ng of protein from a whole cell lysate or 250 ng of protein from a nuclear extract. The xMAP system, developed by Luminex Corp., combines flow cytometry, fluorescent-dyed microspheres (beads), lasers and digital signal processing to effectively allow multiplexing of up to 100 unique assays within a single sample.

About the By Request Procarta Transcription Factor Assay Kits

Panomics' By Request Procarta Transcription Factor Assay Kits are available in 1-plate 96-well formats for 3-39 plex. The kits contain all the reagents and assay controls required to detect DNA binding activity of customer specified transcription factors from human, mouse, or rat whole cell lysates or nuclear extracts. Procarta Transcription Factor Nuclear Extraction Kits and Procarta Transcription Factor Whole Cell Lysis Kits are sold separately.

Safety Warnings and Precautions

CAUTION All chemicals should be considered potentially hazardous. We recommend that this product and its components be handled by those trained in laboratory techniques and be used according to the principles of good laboratory practice.

CAUTION This kit contains small quantities of sodium azide. Sodium azide reacts with lead and copper plumbing to form explosive metal azides. When disposing, flush drains with a large volume of water to prevent azide accumulation. Observe all state and local regulations for disposal.

For research use only. Not for use in diagnosis of disease in human or animals.

Bead-Analyte Association

Included (√)	Bead	Analyte	Included (√)	Bead	Analyte
	7	Elk1		42	PPAR
√	11	NFκB		43	Smad
	12	FAST1		44	RUNX/AML
	17	Oct		45	Brn3
	18	p53		46	CEBP
	19	Pax3		47	NF-Y
	20	NF-E2		51	c-myb
	21	AP2		52	CREB
	25	NF-E1(YY1)		53	ER
	26	ATF2		54	GR/PR
	27	NF-1		55	HIF-1
	28	ISRE		56	FKHR
	29	Pax5		61	GATA
	32	Nkx-2.5		62	IRF
	33	AR		63	Stat1
	34	ETS/PEA		64	HNF1
	35	AP1		65	STAT4
	36	E2F1		66	STAT5

Included (√)	Bead	Analyte	Included (√)	Bead	Analyte
	37	MyoD		73	MEF2
	41	STAT3		76	NFAT

Contents and Storage

Component	Quantity 1-Plate Kit	Storage
Positive Control Nuclear Extract	2 x 40 µL	-80 °C
Negative Control Nuclear Extract	2 x 40 µL	-80 °C
Positive Control Whole Cell Lysate	2 x 40 µL	-80 °C
Negative Control Whole Cell Lysate	2 x 40 µL	-80 °C
Detection Probes ^a	1.1 mL	-20 °C
Sample Dilution Buffer	1 mL	-20 °C
DTT	15 µL	-20 °C
Protease Inhibitor Cocktail	15 µL	-20 °C
Binding Buffer	25 mL	2-8 °C
Separation Buffer	200 mL	2-8 °C
Assay Buffer	5.0 mL	2-8 °C
Wash Buffer	110 mL	2-8 °C
Reading Buffer	15 mL	2-8 °C
Capture Beads ^a	5.0 mL	2-8 °C/Dark
Streptavidin-PE	11 mL	2-8 °C/Dark
Elution Buffer	7.0 mL	15-30 °C
PCR Plate	1 each	15-30 °C
Sample Collection Plate	1 each	15-30 °C
Utility Plate	1 each	15-30 °C
Separation Plate	1 each	15-30 °C
Filter Plate	1 each	15-30 °C
PCR Plate Seal	1 x 3 each	15-30 °C
Plate Seal	1 x 3 each	15-30 °C

a. The Detection Probes and Capture Beads are premixed and ready to use.

Kit Handling

- ◆ Store all controls at -80 °C, avoid multiple freeze-thaws.
- ◆ If precipitate forms in the Elution Buffer, warm to 37 °C with gentle swirling.

Contacting Panomics

For technical questions, contact our technical support group by telephone at 1-877-726-6642 option 3 or by email at techsupport@panomics.com (US and Canada) techsupport_europe@panomics.com (Europe), or visit our website www.panomics.com for an updated list of FAQs and product support literature.

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