

Procarta™ Transcription Factor Assay Kit

Product Insert

Cat. Nos. PC5000, PC5001

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 Procarta Transcription Factor Assay Kit

Panomics' 40-plex Procarta Transcription Factor Assay Kits are available in ¼- and 1-plate 96-well formats. The kits contain all the reagents and assay controls required to detect DNA binding activity of 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(Y1)	√	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 1/4-Plate Kit	Quantity 1-Plate Kit	Storage
Positive Control Nuclear Extract	40 µL	2 x 40 µL	-80 °C
Negative Control Nuclear Extract	40 µL	2 x 40 µL	-80 °C
Positive Control Whole Cell Lysate	40 µL	2 x 40 µL	-80 °C
Negative Control Whole Cell Lysate	40 µL	2 x 40 µL	-80 °C
Detection Probes ^a	0.3 mL	1.1 mL	-20 °C
Sample Dilution Buffer	1 mL	1 mL	-20 °C
DTT	15 µL	15 µL	-20 °C
Protease Inhibitor Cocktail	15 µL	15 µL	-20 °C
Binding Buffer	6.5 mL	25 mL	2-8 °C
Separation Buffer	50 mL	200 mL	2-8 °C
Assay Buffer	1.3 mL	5.0 mL	2-8 °C
Wash Buffer	30 mL	110 mL	2-8 °C
Reading Buffer	4.0 mL	15 mL	2-8 °C
Capture Beads ^a	1.25 mL	5.0 mL	2-8 °C/Dark
Streptavidin-PE	3.0 mL	11 mL	2-8 °C/Dark
Elution Buffer	1.6 mL	7.0 mL	15-30 °C
PCR Plate	1 each	1 each	15-30 °C
Sample Collection Plate	1 each	1 each	15-30 °C
Utility Plate	1 each	1 each	15-30 °C
Separation Plate	1 each	1 each	15-30 °C
Filter Plate	1 each	1 each	15-30 °C
PCR Plate Seal	1 x 3 each	1 x 3 each	15-30 °C
Plate Seal	1 x 3 each	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 gently 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.

Procarta is a trademark of Panomics, Inc.

© 2006 Panomics, Inc. All rights reserved.

Panomics Inc., 6519 Dumbarton Circle, Fremont, CA 94555, Tel. (877) 726-6642