



bioauxilium

BETTER TOOLS. REAL DISCOVERIES.

THUNDER® TR-FRET Cell Signaling Assay Kits

HIGH PERFORMANCE, HIGH QUALITY, RELIABLE, AFFORDABLE

Bioauxilium offers a comprehensive portfolio of validated cell signaling assay kits based on its highly sensitive, robust, and cost-effective THUNDER® TR-FRET technology platform. These complete, ready-to-use assay kits enable the measurement of low amounts of specific intracellular phosphorylated or total proteins in cell lysates from adherent or suspension cells in a simple, rapid, reproducible, and consistent manner. They offer a superior alternative to cumbersome ELISA and other expensive TR-FRET technologies.

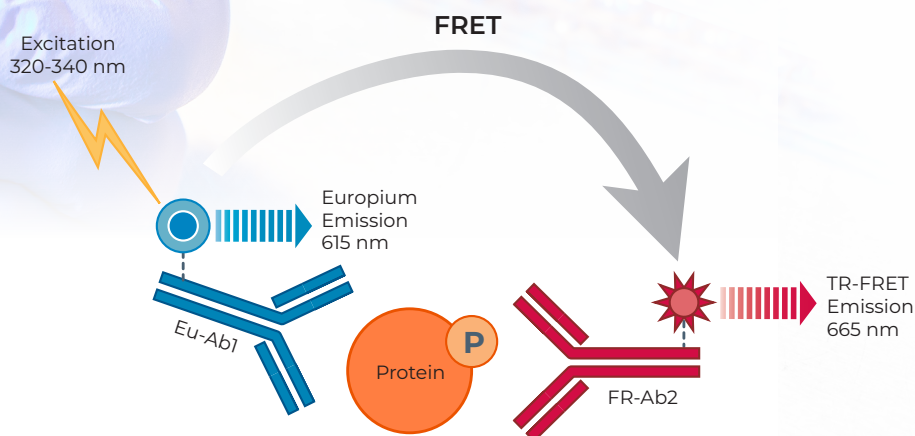
Key Advantages

SUPERIOR PERFORMANCE	Use of high-quality antibody pairs specifically selected for TR-FRET combined with optimally formulated lysis buffers for optimal performance and reproducible results.
RIGOROUS VALIDATION	All assays are subjected to a stringent validation process using lysates from cells treated with pathway-specific activators and inhibitors to demonstrate pharmacological relevance.
STRICT MANUFACTURING	Rigorous quality control testing is done on each kit component and each complete kit to ensure lot-to-lot consistency.
AFFORDABLE	THUNDER® kits are the most cost-effective TR-FRET immunoassays on the market.
OUTSTANDING TECHNICAL SUPPORT	Get timely and useful technical support from the same scientists that developed and validated the assay.

KIT CONTENTS

- Europium-labeled antibody
- Far-red labeled antibody
- Positive control lysate
- Optimized Lysis Buffer
- Detection Buffer
- Phosphatase Inhibitor Cocktail
- Detailed assay protocol
- Comprehensive validation data

THUNDER® TR-FRET technology



All products are available globally through our network of authorized distributors.

ORDERING INFORMATION

	KIT SIZE¹		Bulk quantities and lot reservation available for all kits.		
PRODUCT	100 points	500 points²	2 500 points	5 000 points	10 000 points
Phospho-4EBP1 (T37/T46)	KIT-4EBP1P-100	KIT-4EBP1P-500	KIT-4EBP1P-2500	KIT-4EBP1P-5000	KIT-4EBP1P-10000
Total 4EBP1	KIT-4EBP1T-100	KIT-4EBP1T-500	KIT-4EBP1T-2500	KIT-4EBP1T-5000	KIT-4EBP1T-10000
Phospho-4EBP1 (T37/T46) + Total 4EBP1		KIT-4EBP1P-500			
Phospho-AKT pan (S473)	KIT-AKTS473P-100	KIT-AKTS473P-500	KIT-AKTS473P-2500	KIT-AKTS473P-5000	KIT-AKTS473P-10000
Phospho-AKT pan (T308)	KIT-AKTT308P-100	KIT-AKTT308P-500	KIT-AKTT308P-2500	KIT-AKTT308P-5000	KIT-AKTT308P-10000
Total AKT pan	KIT-AKTT-100	KIT-AKTT-500	KIT-AKTT-2500	KIT-AKTT-5000	KIT-AKTT-10000
Phospho-AKT pan (S473) + Total AKT pan		KIT-AKTS473PT-500			
Phospho-AKT pan (T308) + Total AKT pan		KIT-AKTT308PT-500			
Phospho-BAD (S112)	KIT-BADP-100	KIT-BADP-500	KIT-BADP-2500	KIT-BADP-5000	KIT-BADP-10000
Total BRD4	KIT-BRD4-100	KIT-BRD4-500	KIT-BRD4-2500	KIT-BRD4-5000	KIT-BRD4-10000
Phospho-BTK (Y223)	KIT-BTKP-100	KIT-BTKP-500	KIT-BTKP-2500	KIT-BTKP-5000	KIT-BTKP-10000
Total BTK	KIT-BTKT-100	KIT-BTKT-500	KIT-BTKT-2500	KIT-BTKT-5000	KIT-BTKT-10000
Phospho-BTK (Y223) + Total BTK		KIT-BTKPT500			
Phospho-CREB (S133)	KIT-CREBP-100	KIT-CREBP-500	KIT-CREBP-2500	KIT-CREBP-5000	KIT-CREBP-10000
Total CREB	KIT-CREBT-100	KIT-CREBT-500	KIT-CREBT-2500	KIT-CREBT-5000	KIT-CREBT-10000
Phospho-CREB (S133) + Total CREB		KIT-CREBPT-500			
Phospho-EGFR (Y1068)	KIT-EGFRP-100	KIT-EGFRP-500	KIT-EGFRP-2500	KIT-EGFRP-5000	KIT-EGFRP-10000
Total EGFR	KIT-EGFRT-100	KIT-EGFRT-500	KIT-EGFRT-2500	KIT-EGFRT-5000	KIT-EGFRT-10000
Phospho-EGFR (Y1068) + Total EGFR		KIT-EGFRPT-500			
Phospho-eIF2α (S51)	KIT-EIF2AP-100	KIT-EIF2AP-500	KIT-EIF2AP-2500	KIT-EIF2AP-5000	KIT-EIF2AP-10000
Total eIF2α	KIT-EIF2AT-100	KIT-EIF2AT-500	KIT-EIF2AT-2500	KIT-EIF2AT-5000	KIT-EIF2AT-10000
Phospho-eIF2α (S51) + Total eIF2α		KIT-EIF2APT-500			
Extreme Phospho-ERK1/2 (T202/Y204)	KIT-XTM-ERKP-100	KIT-XTM-ERKP-500	KIT-XTM-ERKP-2500	KIT-XTM-ERKP-5000	KIT-XTM-ERKP-10000
Phospho-ERK1/2 (T202/Y204)	KIT-ERKP-100	KIT-ERKP-500	KIT-ERKP-2500	KIT-ERKP-5000	KIT-ERKP-10000
Total ERK1/2	KIT-ERKT-100	KIT-ERKT-500	KIT-ERKT-2500	KIT-ERKT-5000	KIT-ERKT-10000
Phospho-ERK1/2 (T202/Y204) + Total ERK1/2		KIT-ERKPT-500			
Total GAPDH	KIT-GAPDH-100	KIT-GAPDH-500	KIT-GAPDH-2500	KIT-GAPDH-5000	KIT-GAPDH-10000
Phospho-GSK3β (S9)	KIT-GSK3P-100	KIT-GSK3P-500	KIT-GSK3P-2500	KIT-GSK3P-5000	KIT-GSK3P-10000
Total GSK3β	KIT-GSK3T-100	KIT-GSK3T-500	KIT-GSK3T-2500	KIT-GSK3T-5000	KIT-GSK3T-10000
Phospho-GSK3β (S9) + Total GSK3β		KIT-GSK3PT-500			
Total GSPT1	KIT-GSPT1-100	KIT-GSPT1-500	KIT-GSPT1-2500	KIT-GSPT1-5000	KIT-GSPT1-10000
Phospho-Insulin Receptor β (Y1150/Y1151)	KIT-INRP-100	KIT-INRP-500	KIT-INRP-2500	KIT-INRP-5000	KIT-INRP-10000
Total IRAK4	KIT-IRAK4-100	KIT-IRAK4-500	KIT-IRAK4-2500	KIT-IRAK4-5000	KIT-IRAK4-10000
Phospho-JNK1/2/3 (T183/Y185)	KIT-JNKP-100	KIT-JNKP-500	KIT-JNKP-2500	KIT-JNKP-5000	KIT-JNKP-10000
Total JNK1/2/3	KIT-JNKT-100	KIT-JNKT-500	KIT-JNKT-2500	KIT-JNKT-5000	KIT-JNKT-10000
Phospho-JNK1/2/3 (T183/Y185) + Total JNK1/2/3		KIT-JNKP-500			
Phospho-LCK (Y394)	KIT-LCKP-100	KIT-LCKP-500	KIT-LCKP-2500	KIT-LCKP-5000	KIT-LCKP-10000
Phospho-MEK1 (S218/S222)	KIT-MEK1P-100	KIT-MEK1P-500	KIT-MEK1P-2500	KIT-MEK1P-5000	KIT-MEK1P-10000
Total MEK1	KIT-MEK1T-100	KIT-MEK1T-500	KIT-MEK1T-2500	KIT-MEK1T-5000	KIT-MEK1T-10000
Phospho-MEK1 (S218/S222) + Total MEK1		KIT-MEK1PT-500			
Phospho-c-Met (Y1234/Y1235)	KIT-METP-100	KIT-METP-500	KIT-METP-2500	KIT-METP-5000	KIT-METP-10000
Total c-Met	KIT-METT-100	KIT-METT-500	KIT-METT-2500	KIT-METT-5000	KIT-METT-10000
Phospho-c-Met (Y1234/Y1235) + Total c-Met		KIT-METPT-500			
Phospho-NF-kB (S536)	KIT-NFKBP-100	KIT-NFKBP-500	KIT-NFKBP-2500	KIT-NFKBP-5000	KIT-NFKBP-10000
Total NFkB	KIT-NFKBT-100	KIT-NFKBT-500	KIT-NFKBT-2500	KIT-NFKBT-5000	KIT-NFKBT-10000
Phospho-NF-kB (S536) + Total NFkB		KIT-NFKBPT-500			
Phospho-p38α MAPK (T180/Y182)	KIT-P38AP-100	KIT-P38AP-500	KIT-P38AP-2500	KIT-P38AP-5000	KIT-P38AP-10000
Phospho-p38αβγ MAPK14 (T180/Y182)	KIT-P38P-100	KIT-P38P-500	KIT-P38P-2500	KIT-P38P-5000	KIT-P38P-10000
Phospho-p53 (S15)	KIT-P53P-100	KIT-P53P-500	KIT-P53P-2500	KIT-P53P-5000	KIT-P53P-10000
Total p53	KIT-P53T-100	KIT-P53T-500	KIT-P53T-2500	KIT-P53T-5000	KIT-P53T-10000
Phospho-p53 (S15) + Total p53		KIT-P53PT-500			

¹A point is an assay well; based on a total assay volume of 20 µL in a low-volume 384-well plate.
²The Phospho + Total kits contain 400 points for the Phospho-protein and 100 points for the Total protein.

KIT SIZE¹

Bulk quantities and lot reservation available for all kits.

PRODUCT	100 points	500 points ²	2 500 points	5 000 points	10 000 points
Phospho-p70S6K (T389)	KIT-P70S6KP-100	KIT-P70S6KP-500	KIT-P70S6KP-2500	KIT-P70S6KP-5000	KIT-P70S6KP-10000
Total p70S6K	KIT-P70S6KT-100	KIT-P70S6KT-500	KIT-P70S6KT-2500	KIT-P70S6KT-5000	KIT-P70S6KT-10000
Phospho-p70S6K (T389) + Total p70S6K		KIT-P60SKPT-500			
Phospho-Rb (S780)	KIT-RBS780P-100	KIT-RBS780P-500	KIT-RBS780P-2500	KIT-RBS780P-5000	KIT-RBS780P-10000
Phospho-Rb (S807/S811)	KIT-RBS807P-100	KIT-RBS807P-500	KIT-RBS807P-2500	KIT-RBS807P-5000	KIT-RBS807P-10000
Total Rb	KIT-RBT-100	KIT-RBT-500	KIT-RBT-2500	KIT-RBT-5000	KIT-RBT-10000
Phospho-Rb (S780) + Total Rb		KIT-RBS780PT-500			
Phospho-Rb (S807/S811) + Total Rb		KIT-RBS807PT-500			
Phospho-RPS6 (S235/S236)	KIT-RPS6AP-100	KIT-RPS6AP-500	KIT-RPS6AP-2500	KIT-RPS6AP-5000	KIT-RPS6AP-10000
Phospho-RPS6 (S240/S244)	KIT-RPS6BP-100	KIT-RPS6BP-500	KIT-RPS6BP-2500	KIT-RPS6BP-5000	KIT-RPS6BP-10000
Total RPS6	KIT-RPS6T-100	KIT-RPS6T-500	KIT-RPS6T-2500	KIT-RPS6T-5000	KIT-RPS6T-10000
Phospho-RPS6 (S235/S236) + Total RPS6		KIT-RPS6APT-500			
Phospho-RPS6 (S240/S244) + Total RPS6		KIT-RPS6BPT-500			
Phospho-RIPK1 (S166)	KIT-RIPK1P-100	KIT-RIPK1P-500	KIT-RIPK1P-2500	KIT-RIPK1P-5000	KIT-RIPK1P-10000
Total RIPK1	KIT-RIPKIT-100	KIT-RIPKIT-500	KIT-RIPKIT-2500	KIT-RIPKIT-5000	KIT-RIPKIT-10000
Phospho RIPK1 (S166) + Total RIPK1		KIT-RIPK1PT-500			
Phospho-SLP-76 (S376)	KIT-SLP76P-100	KIT-SLP76P-500	KIT-SLP76P-2500	KIT-SLP76P-5000	KIT-SLP76P-10000
Total SLP-76	KIT-SLP76T-100	KIT-SLP76T-500	KIT-SLP76T-2500	KIT-SLP76T-5000	KIT-SLP76T-10000
Phospho-SLP-76 (S376) + Total SLP-76		KIT-SLP76PT-500			
Phospho-SMAD2 (S465/S467)	KIT-SMAD2P-100	KIT-SMAD2P-500	KIT-SMAD2P-2500	KIT-SMAD2P-5000	KIT-SMAD2P-10000
Phospho-SMAD3 (S423/S425)	KIT-SMAD3P-100	KIT-SMAD3P-500	KIT-SMAD3P-2500	KIT-SMAD3P-5000	KIT-SMAD3P-10000
Total SMAD3	KIT-SMAD3T-100	KIT-SMAD3T-500	KIT-SMAD3T-2500	KIT-SMAD3T-5000	KIT-SMAD3T-10000
Phospho-SMAD3 (S423/S425) + Total SMAD3		KIT-SMAD3PT-500			
Phospho-Src (Y419)	KIT-SRCP-100	KIT-SRCP-500	KIT-SRCP-2500	KIT-SRCP-5000	KIT-SRCP-10000
High Performance Phospho-STAT1 (Y701)	KIT-HP-STAT1P-100	KIT-HP-STAT1P-500	KIT-HP-STAT1P-2500	KIT-HP-STAT1P-5000	KIT-HP-STAT1P-10000
Phospho-STAT1 (Y701)	KIT-STAT1P-100	KIT-STAT1P-500	KIT-STAT1P-2500	KIT-STAT1P-5000	KIT-STAT1P-10000
High Performance Phospho-STAT3 (Y705)	KIT-HP-STAT3P-100	KIT-HP-STAT3P-500	KIT-HP-STAT3P-2500	KIT-HP-STAT3P-5000	KIT-HP-STAT3P-10000
Phospho-STAT3 (Y705)	KIT-STAT3P-100	KIT-STAT3P-500	KIT-STAT3P-2500	KIT-STAT3P-5000	KIT-STAT3P-10000
Total STAT3	KIT-STAT3T-100	KIT-STAT3T-500	KIT-STAT3T-2500	KIT-STAT3T-5000	KIT-STAT3T-10000
Phospho-STAT3 (Y705) + Total STAT3		KIT-STAT3PT-500			
Phospho-STAT4 (Y693)	KIT-STAT4P-100	KIT-STAT4P-500	KIT-STAT4P-2500	KIT-STAT4P-5000	KIT-STAT4P-10000
Phospho-STAT5 (Y694/Y699)	KIT-STAT5P-100	KIT-STAT5P-500	KIT-STAT5P-2500	KIT-STAT5P-5000	KIT-STAT5P-10000
Total STAT5	KIT-STAT5T-100	KIT-STAT5T-500	KIT-STAT5T-2500	KIT-STAT5T-5000	KIT-STAT5T-10000
Phospho-STAT5 (Y694/Y699) + Total STAT5		KIT-STAT5PT-500			
High Performance Phospho-STAT6 (Y641)	KIT-HP-STAT6P-100	KIT-HP-STAT6P-500	KIT-HP-STAT6P-2500	KIT-HP-STAT6P-5000	KIT-HP-STAT6P-10000
Phospho-STAT6 (Y641)	KIT-STAT6P-100	KIT-STAT6P-500	KIT-STAT6P-2500	KIT-STAT6P-5000	KIT-STAT6P-10000
High Performance Total STAT6	KIT-HP-STAT6T-100	KIT-HP-STAT6T-500	KIT-HP-STAT6T-2500	KIT-HP-STAT6T-5000	KIT-HP-STAT6T-10000
Total STAT6	KIT-STAT6T-100	KIT-STAT6T-500	KIT-STAT6T-2500	KIT-STAT6T-5000	KIT-STAT6T-10000
High Performance Phospho-STAT6 (Y641) + Total STAT6		KIT-HP-STAT6PT-500			
Phospho-STAT6 (Y641) + Total STAT6		KIT-STAT6PT-500			
Phospho-SYK (Y525/Y526)	KIT-SYKP-100	KIT-SYKP-500	KIT-SYKP-2500	KIT-SYKP-5000	KIT-SYKP-10000
Total SYK	KIT-SYKT-100	KIT-SYKT-500	KIT-SYKT-2500	KIT-SYKT-5000	KIT-SYKT-10000
Phospho-SYK (Y525/Y526) + Total SYK		KIT-SYKPT-500			
Phospho-TBK1 (S172)	KIT-TBK1P-100	KIT-TBK1P-500	KIT-TBK1P-2500	KIT-TBK1P-5000	KIT-TBK1P-10000

¹A point is an assay well; based on a total assay volume of 20 µL in a low-volume 384-well plate.²The Phospho + Total kits contain 400 points for the Phospho-protein and 100 points for the Total protein.

bioauxilium

CUSTOM ANTIBODY LABELING AND ASSAY DEVELOPMENT

Prefer to develop your own TR-FRET assay?

We can label your antibodies with our proprietary donor and acceptor fluorophores and develop a custom assay as per your specifications.

Contact us for a customized quote at info@bioauxilium.com7171 Frederick-Banting Street, Montréal (Québec) H4S 1Z9 CANADA bioauxilium.com 1-866-610-6933 x 103