

Store at
-20C
#79884

Lung Cancer RTK Antibody Sampler Kit

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

1 Kit (9 x 20 microliters)

For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
EGF Receptor (D38B1) XP [®] Rabbit mAb	4267	20 µl	175 kDa	Rabbit IgG
EGF Receptor (L858R Mutant Specific) (43B2) Rabbit mAb	3197	20 µl	175 kDa	Rabbit IgG
EGF Receptor (E746-A750del Specific) (D6B6) XP [®] Rabbit mAb	2085	20 µl	175 kDa	Rabbit IgG
ALK (D5F3 [®]) XP [®] Rabbit mAb	3633	20 µl	220 (ALK), 80 (NPM-ALK), 117 (EML4-ALK v1), 86 (EML4-ALK v3) kDa	Rabbit IgG
HER2/ErbB2 (D8F12) XP [®] Rabbit mAb	4290	20 µl	185 kDa	Rabbit IgG
FGF Receptor 1 (D8E4) XP [®] Rabbit mAb	9740	20 µl	92, 120, 145 kDa	Rabbit IgG
ROS1 (D4D6 [®]) Rabbit mAb	3287	20 µl	258, 110, 50-80 kDa	Rabbit IgG
Ret (E1N8X) XP [®] Rabbit mAb	14556	20 µl	150, 175 kDa	Rabbit IgG
Met (D1C2) XP [®] Rabbit mAb	8198	20 µl	140, 170 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Lung Cancer RTK Antibody Sampler Kit provides an economical means of detecting receptor tyrosine kinases (RTKs) associated with lung cancer. The kit includes enough antibodies to perform two western blot experiments with each primary antibody.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibodies.*

Background

Lung cancer is the leading cause of cancer-related mortality worldwide (1). It is generally divided into two broad histological classifications: small cell lung cancer (SCLC) and non-small cell lung cancer (NSCLC). NSCLC comprises about 80-85% of all lung cancers. Receptor tyrosine kinases (RTKs) are essential components to cellular signaling pathways and are often overexpressed or otherwise dysregulated by genetic mutations, fusion, or gene amplification (2,3). RTKs are generally activated by receptor specific ligands, leading to autophosphorylation and the subsequent recruitment of downstream signaling proteins. The most common RTK amplification in NSCLC is that for epidermal growth factor receptor (EGFR). Also, two of the most common mutations in EGFR include an exon 19 deletion, E746-A750, and a point mutation L858R (4,5). In addition to EGFR, several other RTKs may become aberrantly activated in NSCLC, including ALK, ROS1, HER2/ErbB2, Met, Ret, FGF Receptor 1, and NTRK (6). Specific tyrosine kinase inhibitors (TKIs) have been part of the arsenal of treating the disease and so analyzing the expression and mutational status of these receptors plays an important role in personalized treatment.

Background References

1. Sung, H. et al. (2021) *CA Cancer J Clin* 71, 209-249.
2. Reinmuth, N. et al. (2006) *Int J Cancer* 119, 727-34.
3. Du, Z. and Lovly, C.M. (2018) *Mol Cancer* 17, 58.
4. Kosaka, T. et al. (2004) *Cancer Res* 64, 8919-23.
5. Riely, G.J. et al. (2006) *Clin Cancer Res* 12, 7232-41.
6. Rebutzi, S.E. et al. (2021) *Int J Mol Sci* 22, 2625.

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

D4D6 is a registered trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

The manufacture, use, sale and import of this product is within the scope of one or more intellectual property rights (including patents and patent applications) owned or controlled by Cell Signaling Technology. The purchase of this product conveys to the buyer a non-transferrable right to use the purchased product only in research conducted by the buyer. The sale of the product is expressly conditioned on the buyer not using the products or its components (1) to analyze or reverse engineer the product for its chemical/physical properties and composition (including e.g., identification of the sequence); (2) in manufacturing; (3) to provide a service, information, or data to an unaffiliated third party for payment; (4) for therapeutic, diagnostic or prophylactic purposes; (5) resale, whether or not such product are resold for use in research; or for any other commercial purpose. For information on purchasing a license to this product for purposes other than research, contact Cell Signaling Technology, Inc. Business Development at busdev@cellsignal.com.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.