## **Product Datasheet**

### **GTPase Activity Kit (Colorimetric)** 602-0120

Unit Size: 2 x 96 Tests

Storage of components varies. See protocol for specific instructions.

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#### 602-0120

GTPase Activity Kit (Colorimetric)

Product Information	
Unit Size	2 x 96 Tests
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.
Buffer	
Product Description	
Description	<ul> <li>This non radioactive colorimetric assay kit contains all the necessary reagents for measuring enzyme activity (everything included in the PiColorlock kit and more) and is ideal for high throughput drug screening.</li> <li>The kits contain our PiColorlock, a non-radioactive, superior phosphate detection reagent.</li> <li>Key Features of PiColorLock: <ul> <li>Colorimetric Assay-competitor assays are radioactive.</li> <li>Special additive ensures low backgrounds with acid-labile substrates.</li> <li>Unparalleled stability of phosphate-dye complexes.</li> <li>Reagent is compatible with almost any assay buffer.</li> <li>No inhibition of color development by high concentrations of protein.</li> <li>Stable reagent formulation - long shelf life.</li> </ul> </li> <li>Colorimetric assays for GTPases are invariably based on the formation of colored complexes between an inorganic phosphate and a dye molecule under</li> </ul>
Kit Components	acidic conditions. 1 x 10 ml of PiColorLock (1 x 25 ml), 1 x 0.25 ml of Accelerator (1 x 0.5 ml), 1 x 5 ml of Stabiliser (1 x 10 ml), 1 x 1.5 ml of 0.1M MgCl2 (2 x 1.5 ml), 1 x 5 ml of 0.5M Tris pH 7.5 (1 x 10 ml), 1 x 5 ml of 0.1mM Pi standard (1 x 10 ml), 4 vials of
	lyophilized ATP (10 vials), 2 x 96-well plates (5 plates)
Notes	This product is manufactured by Abcam and distributed by Novus Biologicals. This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact technical@novusbio.com with questions.



#### **Publications**

Sarkar C, Sadhukhan T, Bagh MB et al. Cln1-mutations suppress Rab7-RILP interaction and impair autophagy contributing to neuropathology in a mouse model of infantile neuronal ceroid lipofuscinosis J. Inherit. Metab. Dis. 2020 -04-12 [PMID: 32279353]

Hsieh CH, Li L, Vanhauwaert R et al. Miro1 Marks Parkinson\'s Disease Subset and Miro1 Reducer Rescues Neuron Loss in Parkinson\'s Models Cell Metab. 2019-09-23 [PMID: 31564441]

Garcia-Regalado A, Guzman-Hernandez ML, Ramirez-Rangel I et al. G Protein-Coupled Receptor-Promoted Trafficking of G beta-1-gamma-2 Leads to AKT Activation at Endosomes via a Mechanism Mediated by G?1?2-Rab11a Interaction. Mol Biol Cell. 2008-01-01 [PMID: 18701709] (EnzAct, E. coli)

Li W, Feng J, Gao C et al. Nitration of Drp1 provokes mitophagy activation mediating neuronal injury in experimental autoimmune encephalomyelitis Free Radical Biology and Medicine 2019-08-01 [PMID: 31377418] (EnzAct)

Ferreira JCB, Campos JC, Qvit N et al. A selective inhibitor of mitofusin 1-βIIPKC association improves heart failure outcome in rats. Nat Commun. 2019-04-09 [PMID: 30659190] (In vitro)

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Ho DH, Jang J, Joe EH et al. G2385R and I2020T Mutations Increase LRRK2 GTPase Activity. Biomed Res Int. 2016 -01-01 [PMID: 27314038]

Hwang J, Kim HS, Kang BS et al. RGS19 converts iron deprivation stress into a growth-inhibitory signal. Biochem Biophys Res Commun. 2015-08-14 [PMID: 26116529]

Cha GH, Wang W, Peng T et al. A Rac1 GTPase is a critical factor in the immune response of shrimp (Litopenaeus vannamei) to Vibrio alginolyticus infection. Dev Comp Immunol. 2015-01-01 [PMID: 25892021]

Franco A, Kitsis RN, Fleischer JA et al. Correcting mitochondrial fusion by manipulating mitofusin conformations. Nature. 2016-12-01 [PMID: 27775718]

Lin SJ, Chiang MC, Shih HY et al. Regulator of G protein signaling 2 (Rgs2) regulates neural crest development through Ppard-Sox10 cascade. Biochim. Biophys. Acta. 2016-12-13 [PMID: 27979767] (Func, Fish)

Hu Y, Keniry M, Palmer SO, Bullard JM. Discovery and Analysis of Natural Product Compounds Inhibiting Protein Synthesis in Pseudomonas aeruginosa. Antimicrob. Agents Chemother. 2016-05-31 [PMID: 27246774]

More publications at http://www.novusbio.com/602-0120





#### Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

#### **Bio-Techne Canada**

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

#### **Bio-Techne Ltd**

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

#### **General Contact Information**

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

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