

## Product datasheet for **TA371975S**

### ULK1 Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC  |
| Recommended Dilution: | IHC: 20-100<br>Positive control: Human colorectal cancer<br>Predicted cell location: Cytoplasm |
| Reactivity:           | Human  |
| Host:                 | Rabbit   |
| Isotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Synthetic peptide of human ULK1  |
| Formulation:          | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol   |
| Concentration:        | lot specific   |
| Purification:         | Antigen affinity purification  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store at -20°C.  |
| Stability:            | 1 year   |
| Gene Name:            | unc-51 like autophagy activating kinase 1  |
| Database Link:        | <a href="#">Entrez Gene 8408 Human O75385</a>  |

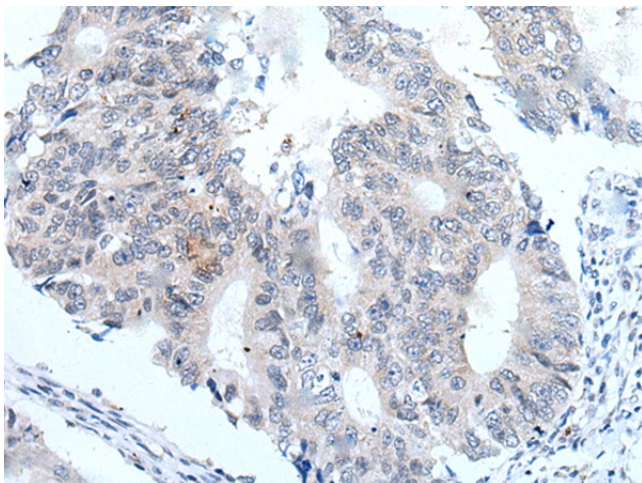
**Background:** Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation.



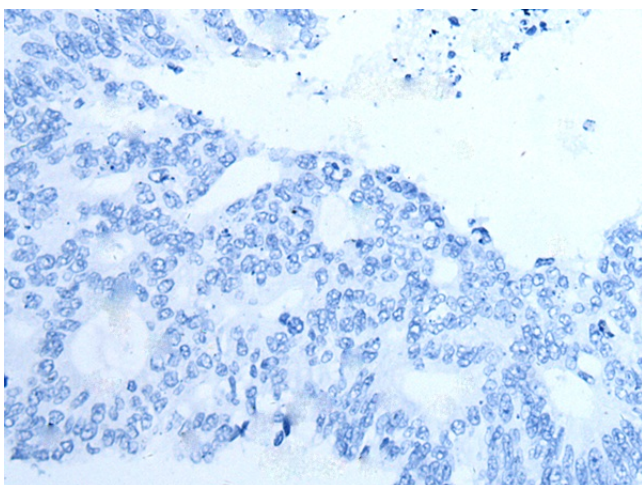
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Synonyms: ATG1; FLJ38455; FLJ46475; KIAA0722; UNC51; Unc51.1

### Product images:



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA371975] (ULK1 Antibody) at dilution 1/30 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA371975] (ULK1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: x200)