

Datasheet for ABIN7120700 **anti-VRK2 antibody**

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Overview

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|--------------|--|
| Quantity: | 100 µg |
| Target: | VRK2 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This VRK2 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunoprecipitation (IP) |

Product Details

| | |
|---------------|---------------------------------|
| Immunogen: | vaccinia related kinase 2 |
| Isotype: | IgG |
| Purification: | Immunogen affinity purified |
| Purity: | ≥95 % as determined by SDS-PAGE |

Target Details

| | |
|-------------------|---|
| Target: | VRK2 |
| Alternative Name: | VRK2 (VRK2 Products) |
| Background: | Synonyms:Vaccinia related kinase 2, VRK2 Background:Serine/threonine kinase that regulates several signal transduction pathways. Isoform 1 modulates the stress response to hypoxia and cytokines, such as interleukin-1 beta(IL1B) and this is dependent on its interaction with MAPK8IP1, which assembles mitogen-activated protein kinase(MAPK) complexes. Inhibition of |

Target Details

signal transmission mediated by the assembly of MAPK8IP1-MAPK complexes reduces JNK phosphorylation and JUN-dependent transcription. Phosphorylates 'Thr-18' of p53/TP53, histone H3, and may also phosphorylate MAPK8IP1. Phosphorylates BANF1 and disrupts its ability to bind DNA and reduces its binding to LEM domain-containing proteins. Downregulates the transactivation of transcription induced by ERBB2, HRAS, BRAF, and MEK1. Blocks the phosphorylation of ERK in response to ERBB2 and HRAS. Can also phosphorylate the following substrates that are commonly used to establish in vitro kinase activity: casein, MBP and histone H2B, but it is not sure that this is physiologically relevant. Isoform 2 phosphorylates 'Thr-18' of p53/TP53, as well as histone H3. Reduces p53/TP53 ubiquitination by MDM2, promotes p53/TP53 acetylation by EP300 and thereby increases p53/TP53 stability and activity.

Molecular Weight: 67 kDa

Gene ID: 7444

UniProt: [Q86Y07](#)

Application Details

Application Notes: WB: 1:500-1:5000,IP: 1:200-1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months