

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human p15INK4b/CDKN2B in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human (rh) p16INK4a and no cross-reactivity with rhp18INK4c or rhp19INK4d is observed.                                              |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 651308                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human p15INK4b/CDKN2B<br>Arg2-Asp138<br>Accession # P42772                                                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

p15INK4B is an approximately 15 kDa member of the p16INK4 family. Human p15INK4B is 138 amino acids (aa) in length and contains four ankyrin repeats, a common structural sequence found in members of the INK4 family. The first 50 aa of p15INK4B share 44% sequence identity with p16INK4. Following this is an 81 aa region sharing 97% sequence identity, after which the two proteins diverge. Human p15INK4B shares 83% aa sequence identity with mouse and rat p15INK4B. Functionally, p15INK4B interacts strongly with CDK4 and CDK6 and is a potent inhibitor. p15INK4B can potentially induce cell cycle arrest by acting as an effector of TGF-β.

#### PRODUCT SPECIFIC NOTICES

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