

## Polyclonal Antibody to DAP Kinase 2

<b>Catalog No.:</b>	SP6263P
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	0.5 mg/ml
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	A synthetic peptide corresponding to amino acids 356 to 370 of human DAPK2 (1, 2). The sequence of this antigenic peptide is identical to the corresponding amino acids of mouse origin (1, 2).

<b>Applications:</b>	<p>Format: This antibody is supplied as liquid immunoaffinity purified immunoglobulin fraction in Phosphate buffered saline with 0.02% sodium azide as preservative.</p> <p>Suitable for Western blot (0.5 - 1 µg/ml, A431 whole cell lysate can be used as positive control and an approximately 42 kDa band can be detected). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>Apoptosis is mediated by death domain containing adapter molecules and a caspase family of proteases. Certain serine/threonine protein kinases, such as RIP and DAP kinase, are mediators of apoptosis. DAP kinase (DAPK) is pro-apoptotic calcium-regulated serine/threonine kinase containing death domain. Ectopic expression of DAPK induces cell death and suppresses oncogenic transformation. DAPK mediates IFN<math>\gamma</math> induced apoptosis. A novel DAP kinase-related protein was recently identified and designated DAPK2 and DRP-1 (1, 2). Ectopically expressed DAPK2 induced apoptosis in various types of cells (1, 2). DAPK has high sequence homology to ZIP kinase and DRAK1/2, and they represent a novel family of serine/threonine kinases, which mediates apoptosis through their catalytic activities. The messenger RNA of DAPK2 is expressed in multiple human tissue (1). This antibody reacts with human DAP-Kinase 2. Cross reacts with mouse and rat.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.</p>
<b>General Readings:</b>	<p>1. Kawai T, Nomura F, Hoshino K, Copeland NG, Gilbert DJ, Jenkins NA, et al. Death-associated protein kinase 2 is a new calcium/calmodulin-dependent protein kinase that</p>

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signals apoptosis through its catalytic activity. *Oncogene*. 1999 Jun 10;18(23):3471-80. PubMed PMID: 10376525.

2. Inbal B, Shani G, Cohen O, Kissil JL, Kimchi A. Death-associated protein kinase-related protein 1, a novel serine/threonine kinase involved in