

## Product datasheet

# Anti-ERC1 antibody [ELKS-30] $\alpha$ b50312

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### Overview

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<b>Product name</b>	Anti-ERC1 antibody [ELKS-30]
<b>Description</b>	Mouse monoclonal [ELKS-30] to ERC1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, ELISA, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Chicken, Cow, Human <b>Predicted to work with:</b> Zebrafish
<b>Immunogen</b>	Synthetic peptide: SPRLPRSPRLGHRRTNSTGG , corresponding to amino acids 21 - 40 of Human ERC1 <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: HeLa cell extract.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 15mM Sodium Azide Constituents: 0.01M PBS, pH 7.4
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	This antibody is a purified immunoglobulin.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	ELKS-30
<b>Myeloma</b>	NS1
<b>Isotype</b>	IgG2a

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab50312** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent dilution.
WB	★★★★★	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 120 kDa (predicted molecular weight: 128 kDa).
ELISA		Use at an assay dependent dilution.
IP		Use at an assay dependent dilution.

## Target

<b>Function</b>	Regulatory subunit of the IKK complex. Probably recruits IκappaBα/NFKBIA to the complex. May be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. May be involved in vesicle trafficking at the CAZ. May be involved in Rab-6 regulated endosomes to Golgi transport.
<b>Tissue specificity</b>	Widely expressed. Isoform 2 and isoform 4 are abundantly expressed in brain. Isoform 1 and isoform 3 are predominantly expressed in testis and thyroid, and isoform 1 predominates in other tissues tested.
<b>Involvement in disease</b>	Thyroid papillary carcinoma (TPC) [MIM:188550]: A common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=The gene represented in this entry may be involved in disease pathogenesis. A chromosomal aberration involving ERC1/RAB6IP2 is found in cause of thyroid papillary carcinomas. Translocation t(10;12)(q11;p13) involving RET. In vitro, isoform 1, isoform 3 and isoform 5 participating in a ERC1-RET fusion protein activate tyrosine-protein kinase activity.
<b>Sequence similarities</b>	Contains 1 FIP-RBD domain.
<b>Cellular localization</b>	Cytoplasm. Membrane. Golgi apparatus membrane. In neurons, localized closed to presynaptic membrane. Recruited on Golgi membranes by RAB6A in a GTP-dependent manner.

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