

IER2 Rabbit pAb

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Catalog # AP56034

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BTL4
Predicted	Rat, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24196
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IER2
Epitope Specificity	1-100/223
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IER2 is a 223 amino acid protein belonging to the immediate early response (IER) family. IER proteins are the first gene products to be induced during growth stimulation and/or arrest. IER2 expression can be induced by growth factors, 12-O-tetradecanoylphorbol-13-acetate (TPA) or Okadaic acid. The coding region of IER2 contains regions of similarity to the transcription factor proteins that are encoded by the Jun oncogene family, possibly indicating a role for IER2 in transcription regulation. Further evidence for this role includes a GUUUG sequence in the 3' flanking region of IER2, which is believed to be a mRNA degradation signal similar to those found in transcription regulators.

Additional Information

Gene ID	9592
Other Names	Immediate early response gene 2 protein, Protein ETR101, IER2 (HGNC:28871)
Dilution	WB=1:500-2000, IHC-P=1:100-500, IHC-F=1:100-500, ICC/IF=1:100-500, ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	IER2 (HGNC:28871)
Function	DNA-binding protein that seems to act as a transcription factor (PubMed: 19584537). Involved in the regulation of neuronal differentiation, acts upon JNK-signaling pathway activation and plays a role in neurite outgrowth in hippocampal cells (By similarity). May mediate with FIBP FGF-signaling in the establishment of laterality in the embryo (By similarity). Promotes cell motility, seems to stimulate tumor metastasis (PubMed: 22120713).
Cellular Location	Cytoplasm. Nucleus. Note=Cytoplasmic during quiescence, translocates to the nucleus upon stimulation
Tissue Location	Expressed in activated T-cells (at protein level) (PubMed:22120713). Expression increases in metastatic tumor cells (at protein level) (PubMed:22120713).

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.