

AB-PN509

EEF1A1-pY141 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human EEF1A1



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Eukaryotic elongation factor 1-alpha 1
Alias:	CCS-3; CCS3; cervical cancer suppressor 3; CTCL tumour antigen; EEF-1; EEF1A; eEF1A-1; EEF1A1; EF-1-alpha-1; EF-Tu; EF1A; EF1a-like protein; EF1A1; elongation factor 1 alpha subunit; Elongation factor 1-alpha 1; Elongation factor Tu; Eukaryotic elongation factor 1 A-1; eukaryotic translation elongation factor 1 alpha 1; eukaryotic translation elongation factor 1 alpha 1-like 14; FLJ25721; glucocorticoid receptor AF-1 specific elongation factor; GRAF-1EF; LENG7; leukocyte receptor cluster (LRC) member 7; prostate tumour-inducing protein 1; PTI1; translation elongation factor 1 alpha 1-like 14
UniProt ID:	P68104
Sequence Predicted Mass (KDa):	50.141 (462 AA; P68104-1); 47.869 (441 AA; P68104-2)
Observed SDS-PAGE Mass (KDa):	45-50

Immunogen

Antibody Immunogen Source:	Human EEF1A1 sequence peptide Cat. No.: PE-04ACQ90
Antibody Immunogen Sequence:	LLA(pY)TLG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L138 to G144; In the middle of the GTP_EFTU domain. This is the second major in vivo phosphorylation site in EEF1A1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-141

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	141003
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HEK-293 and Jurkat cells and sea star oocytes, except for a very strong ~75 KDa protein in FBS-treated Jurkat cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)