

AB-PN602

GTF2I-pS412 Antibody

Phosphosite-specific rabbit polyclonal antibody for GTF2I. This phosphoserine-site antibody also weakly cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	General transcription factor II-I
Protein Alias:	BAP135; BAP-135; Bruton tyrosine kinase-associated protein-135; BTKAP1; BTK-associated protein 135; BTK-associated protein-135; DIWS; DIWS1T; General II-I; General transcription factor Iii; GTFI; GTFII-I; IB291; SPIN; SRF-Phox1 interacting protein; WBSCR6; Williams-Beuren syndrome chromosome region 6 protein
UniProt ID:	P78347
Protein Molecular Mass:	12,416 Da (998 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human GTF2I
Antibody Immunogen Sequence:	FRRP(pS)TYGC
Antibody Immunogen Description:	Corresponds to amino acid residues F408 to G415. S412 phosphorylation induces transcription. This is one of the major <i>in vivo</i> phosphorylation sites in GTF2I (≥ 147 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). GTF2I is known to be phosphorylated at this site <i>in vitro</i> by PKG1.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multi-peptide 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 these animals 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.
Amount:	25 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Dog Rat Mouse Platypus

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987