# AB-PN517

## GIT1-pY545 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human GIT1

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

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

## Target Protein

| | |
|---|---|
| **Name Long:** | ARF GTPase-activating protein GIT1 |
| **Alias:** | ARF GAP GIT1; ARF GTPase-activating protein GIT1; CAT-1; CAT1; Cool-associated and tyrosine-phosphorylated protein 1; G protein-coupled receptor kinase interacting ArfGAP 1; G protein-coupled receptor kinase interactor 1; G protein-coupled receptor kinase-interactor 1; GIT1; GRK-interacting protein 1 |
| **UniProt ID:** | Q9Y2X7 |
| **Sequence Predicted Mass (KDa):** | 84.341 (761 AA; Q9Y2X7-1); 85.446 (770 AA; Q9Y2X7-3); 19.160 (176 AA; Q9Y2X7-2) |
| **Observed SDS-PAGE Mass (KDa):** | 85-95 |

## Immunogen

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|---|---|
| **Antibody Immunogen Source:** | Human GIT1 sequence peptide Cat. No.: PE-04AEN99 |
| **Antibody Immunogen Sequence:** | DAI(pY)SVH(bA)C (bA) = beta-alanine |
| **Location in Target:** | Corresponds to amino acid residues D542 to H548; In the last third of the protein before the GIT1_C domain. This is the major in vivo phosphorylation site in GIT1. |
| **Peptide Type:** | For phosphosite-specific recognition of target. |
| **Target Phosphosite:** | Tyr-545 |

## Production

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|---|---|
| **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 multipep 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 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:** | 1 mg/ml |
| **Lot Number:** | 150106 |
| **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:** | Strong immunoreactivity with immunogen peptide on dot blots. |
| **Overall Antibody Specificity:** | Very high selectivity |
| **Antibody Cross Reactivities:** | No significant cross-reactive proteins detected in A431 and Jurkat cells. |