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Product datasheet for TA336749

TYRO3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, WB
Recommended Dilution:	Flow (Intracellular), Flow Cytometry, Immunocytochemistry/ Immunofluorescence: 1:200, Western Blot: 2 ug/ml
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide made to an internal portion of the human TYRO3 protein (within residues 100-250). [Swiss-Prot# Q06418]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	96 kDa
Gene Name:	TYRO3 protein tyrosine kinase
Database Link:	NP_006284 Entrez Gene 22174 MouseEntrez Gene 7301 Human Q06418

View online »

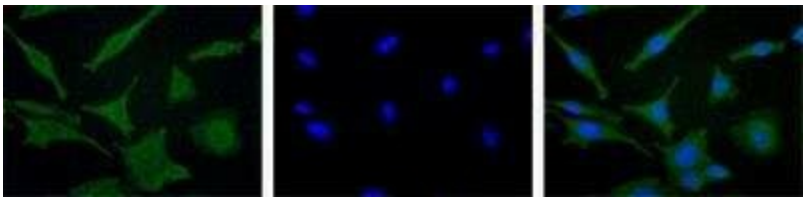
Background: TYRO3 (tyrosine-protein kinase receptor TYRO3) is a RTK which facilitate transduction of signals from extracellular matrix (ECM) into cytoplasm via its direct interaction with multiple ligands such as TUB, TULP1 or GAS6 for the regulation of multiple biological processes such as cell survival, migration and differentiation. TYRO3-ligand binding stimulates its dimerization as well as autophosphorylation on its intracellular domain that provides docking sites for the molecules of downstream signaling. Once stimulated, TYRO3 interacts with PIK3R1 leading to increased PI3K activity followed by AKT signaling activation including NFkB nuclear translocation mediated up-regulation of transcription of NFkB's target genes. TYRO3 signaling events are critical to neuron protection from excitotoxic injury, platelet aggregation, cytoskeletal reorganization, inhibition of TLRs-mediated innate immune response via STAT1 activation followed by production of cytokine signaling suppressors (SOCS1 and SOCS3). TYRO3 is highly expressed during CNS neurogenesis with distinct patterns in adult brain and has been closely related to CNS immunodysfunction.

Synonyms: BYK; Dtk; Etk-2; Rek; RSE; Sky; Tif

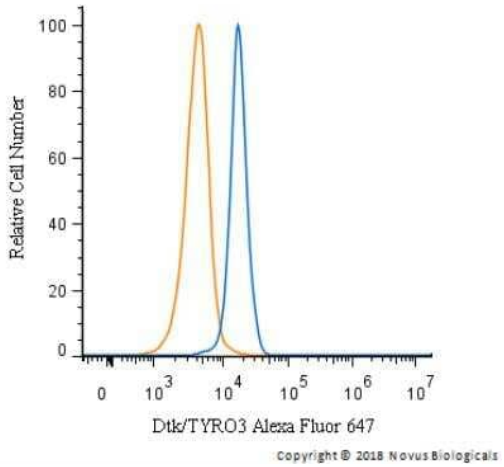
Note: This TYRO3 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band can be seen at ~96 kDa.

Protein Families: Druggable Genome, Protein Kinase

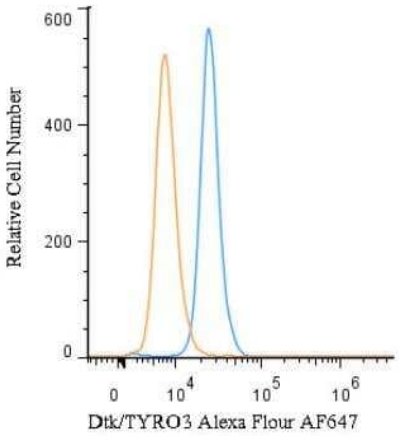
Product images:



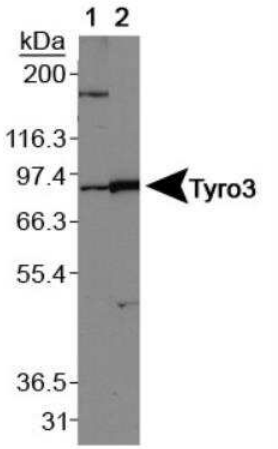
Immunocytochemistry/Immunofluorescence: Dtk/TYRO3 Antibody TA336749 - Staining of HELA cells using NBP128635 (Green) at a 1:200 dilution detected using Dylight-488 conjugated goat anti-rabbit secondary antibody. Nuclei were visualized using Hoechst 33258 (Blue).



Flow Cytometry: Dtk/TYRO3 Antibody TA336749 - An intracellular stain was performed on HeLa cells with Dtk/TYRO3 Antibody TA336749AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Flow (Intracellular): Dtk/TYRO3 Antibody TA336749 - An intracellular stain was performed on U-937 cells with Dtk/TYRO3 Antibody TA336749AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Western Blot: Dtk/TYRO3 Antibody TA336749 - Lane 1: Western blot on normal human brain, Lane 2: Western blot on normal mouse brain.