

# TYRO3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20986c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q06418</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB50580
<b>Calculated MW</b>	96905

## Additional Information

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<b>Gene ID</b>	7301
<b>Other Names</b>	Tyrosine-protein kinase receptor TYRO3, Tyrosine-protein kinase BYK, Tyrosine-protein kinase DTK, Tyrosine-protein kinase RSE, Tyrosine-protein kinase SKY, Tyrosine-protein kinase TIF, TYRO3, BYK, DTK, RSE, SKY, TIF
<b>Target/Specificity</b>	This TYRO3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 854-878 amino acids from the C-terminal region of human TYRO3.
<b>Dilution</b>	WB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TYRO3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TYRO3
<b>Synonyms</b>	BYK, DTK, RSE, SKY, TIF
<b>Function</b>	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or

GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Also plays an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Abundant in the brain and lower levels in other tissues

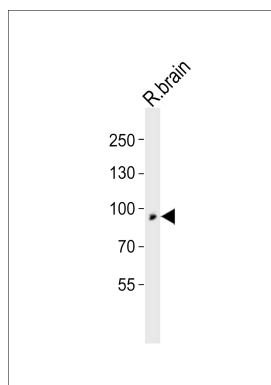
## Background

Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.

## References

Mark M.R.,et al.J. Biol. Chem. 269:10720-10728(1994).  
Ohashi K.,et al.Oncogene 9:699-705(1994).  
Crosier K.E.,et al.Growth Factors 11:137-144(1994).  
Kajii Y.,et al.Biol. Cell 88:45-54(1996).  
Polvi A.,et al.Gene 134:289-293(1993).

## Images



Western blot analysis of lysate from rat brain tissue lysate, using TYRO3 Antibody (C-term)(Cat. #AP20986c). AP20986c was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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