

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Tyro3/Dtk in direct ELISAs and Western blots. In direct ELISA and Western blots, approximately 20% cross-reactivity with recombinant human (rh) Tyro3/Dtk is observed, and less than 1% cross-reactivity with recombinant mouse (rm) Axl, rmMer and rhAxl is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Tyro3/Dtk Ala31-Ser418 Accession # P55144
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

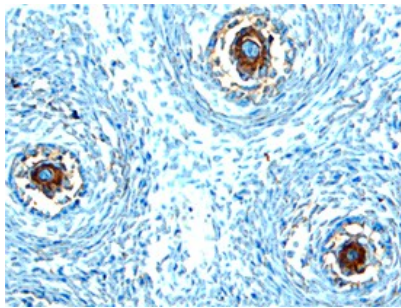
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Tyro3/Dtk Fc Chimera (Catalog # 759-DT)
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



Tyro3/Dtk in Mouse Embryo.
Tyro3/Dtk was detected in immersion fixed frozen sections of mouse embryo (13 d.p.c, follicles of vibrissae associated with upper lip) using Goat Anti-Mouse Tyro3/Dtk Antigen Affinity-purified Polyclonal Antibody (Catalog # AF759) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the follicles of vibrissa. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Axl (Ufo, Ark), Dtk (Sky, Tyro3, Rse, Brt) and Mer (human and mouse homologues of chicken c-Eyk) constitute a new receptor tyrosine kinase subfamily. The extracellular domain of these proteins contain two Ig-like motifs and two fibronectin type III motifs. This characteristic topology is also found in neural cell adhesion molecules and in receptor tyrosine phosphatases. All three receptors bind the vitamin K-dependent protein growth-arrest specific gene 6 (Gas6) which is structurally related to the anticoagulation factor protein S. The binding affinities for Gas6 is in the order of Axl > Dtk > Mer. Gas6 binding induces tyrosine phosphorylation and downstream signaling pathways that can lead to cell proliferation, migration, or the prevention of apoptosis. Dtk is widely expressed during embryonic development. In adults, Dtk is predominantly expressed in neurons in restricted regions of the brain.

References:

1. Nagata, K. *et al.* (1996) *J. Biol. Chem.* **271**:30022.
2. Crosier, K.E. and P.S Crosier (1997) *Pathology* **29**:131.