

Custom LNA™ mRNA Detection Probes for *In Situ* Hybridization

Selected publications — Fixed cells

Andreassi *et al.* An NGF-responsive element targets myo-inositol monophosphatase-1 mRNA to sympathetic neuron axons. *Nat. Neurosci.* 2010, 13: 291-301. PMID: [20118926](#)

Source: Rat, neural axons

Target: IMPA1, GFP

Detection: Biotin / Tyramide Confocal FISH

Ganesan & Rao. A novel noncoding RNA processed by Drosha is restricted to nucleus in mouse. *RNA* 2008, 14: 1399-410. PMID: [18515546](#)

Source: Mouse, Gc1-Spg cells

Target: mrhl

Detection: Direct fluorescence confocal FISH

Robertson & Thach. LNA flow-FISH: a flow cytometry-fluorescence in situ hybridization method to detect messenger RNA using locked nucleic acid probes. *Anal. Biochem.* 2009, 390: 109-14. PMID: [19393610](#)

Source: Human, A549 cells

Target: Beta-actin

Detection: Biotin / PE strept / FISH Cytometry

Robertson *et al.* Monitoring viral RNA in infected cells with LNA flow-FISH. *RNA* 2010, 16: 1679-85. PMID: [20584898](#)

Source: Hamster, BHK cells

Target: Sindbis virus

Detection: Biotin / PE strept / FISH Cytometry

Thomsen *et al.* Dramatically improved RNA in situ hybridization signals using LNA-modified probes. *RNA*. 2005, 11: 1745-8. PMID: [16177135](#)

Source: Yeast

Target: SSA4

Detection: Direct fluorescence microscopy FISH

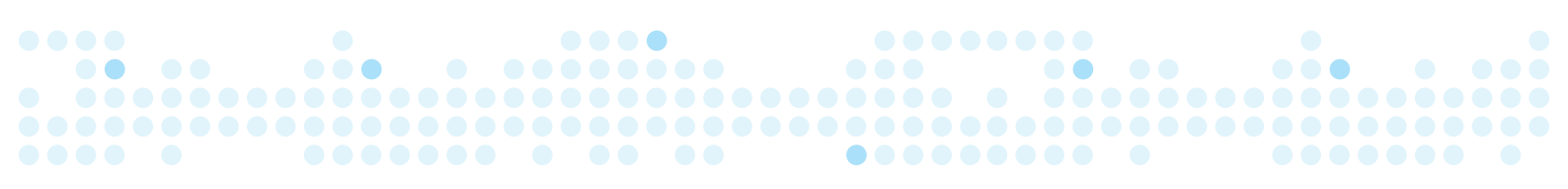
Selected publications — FFPE

Puputti *et al.* Expression of KIT receptor tyrosine kinase in endothelial cells of juvenile brain tumors. *Brain Pathol.* 2010, 20: 763-70. PMID: [20030644](#)

Source: Human, neural astrocytoma

Target: KIT

Detection: DIG / HRP / DAB



Selected publications — Whole mount

Darnell *et al.* Whole mount *in situ* hybridization detection of mRNAs using short LNA containing DNA oligonucleotide probes. RNA. 2010, 16: 632-7. PMID: [20086052](#)

Source: Chicken, embryonic heart

Target: cTNT

Detection: DIG / AP / BCIP-NBT

Lavery *et al.* Wnt6 expression in epidermis and epithelial tissues during *Xenopus* organogenesis. Dev Dyn. 2008, 237: 768-79. PMID: [18224714](#)

Source: *Xenopus*, organogenesis

Target: xWnt6

Detection: DIG / AP / BCIP-NBT

Selected publications — Cryosections

Lavery *et al.* Wnt6 expression in epidermis and epithelial tissues during *Xenopus* organogenesis. Dev Dyn. 2008, 237: 768-79. PMID: [18224714](#)

Source: *Xenopus*, organogenesis

Target: xWnt6

Detection: DIG / AP / BCIP-NBT

