





building towards

canadian Immunohistochemistry Quality control

CIQC

## Run 71 Protocols

Eleven of the 12 participating laboratories used the ALK Break Apart Kit from Vysis (Abbott Molecular) and distributed by InterMedico in Canada. A single lab used the SureFISH ALK break apart product from Agilent (Dako).

Labs/Fields	107	111	115	137	146	191	194	202	211	217	229
Supplier/Vendor	Abott	Vysis/ Intermedico	Abott	Abott Molecular	Agilent	Vysis	Abott Molecular	Abott	Abott Molecular	Abott Molecular- Vysis	Abott
Probe	ALK breakapart	ALK Break- apart probe	ALK (Abott)	ALK	SureFISH ALK break apart	ALK	Vysis ALK Break Apart FISH Probe Kit	Vysis ALK	Vysis ALK Break Apart	ALK 2 color break Apart probe	ALK
Instrument	n/a	VP2000/ Hybrite	Thermobrite Hybridizer	Thermobrite	StatSpin Dako hybridizer	none	Thermobrite S500-12	Hybrite	Thermobrite	N/A	Thermobrite
If manual protocol, specify method (use N/A if not manual)	see below	N/A	Manual	Ours	manual	manual	Manual Protocol. Use Xylene instead of Hemo-De; Use 10mM sodium citrate buffer instead of Vysis Pretreatment Soln; Use Pepsin in 0.01N HCl instead of 'Vysis Protease Soln'.	n/a	manual as per vendor procedure	N/A	CLS Procedure: Processing Paraffin Embedded Tissue Sections for FISH
Denaturation time/temp	5 min, 75Å°C	5 mins/ 74C	2 Min at 73C	5min/74c	5min/75C	75Å°C	5 minutes/ 74 C	3 min/73C	73C / 3 minutes	5min at 75Å°C	73 degrees C
Hybridization time/temp	overnight, 37Å°C	16 hrs/ 37C	15 hours at 37 Å°C	overnight/37c	18h/37C	37Å°C	Overnight/ 37C	18 hrs/37C	37C / 20 hours	37Å°C overnight (16h)	37 degrees C
Pre-treatment reagent/time/temp	HCl for 22 min, RT; NaSCN 40 min, 80Å°C	10mM Na citrate/ 160 mins/ 80C	Abott Fish pretreatment buffer 1M Sodium Thiocyanate , 20 min , 80 C	sodium citrate/2hrs/80c	HCL/20min/TP, NaCitrate/30min/97C	1m NASCN/80Å°C /30min	10mM Sodium Citrate/ 2.5hrs/ 80C	20 min/80C	Vysis Paraffin Pretreatment Kit IV / 12 minutes / 80C	sodium citrate 0.01M 6min at 92Å°C	Abott Pretreatment Solution/10min /80 degrees C
Proteolytic digestion reagent/time/temp	Pepsin 15-18 min, 37Å°C	pepsin/ 35 mins/ 37C	Vysis protease Buffer IV + pepsin / 20 min at 37C	pepsin/15min/37c	Pepsin/18min/ 37C	pepsine/20min/ 37Å°C	Pepsin in HCl Soln/ ~20 min/ 37C	citrate buffer /5min/123c	Vysis Protease IV / 7 minutes / 37C	Pepsin 2.5mg/ml for 15min at 37Å°C	Pepsin/15min/ 37 degrees C
Post-hybridization wash time/temp	2xSSC/0.3% Igepal, 2 min, 73Å°C	2 mins/ 72C	Rinse RT then 3 minutes at 72Å°	2min@72c, 1min@room temp	2XSSC/2min/RT, 2XSSC 0.3% tween/2min/75C	0,2x SSC/0,3%NP40/ 2min/73Å°C	1. "2xSSC/0.3% NP40" until coverslip falls off at Room Temp 2. "2xSSC/0.3% NP40" at 72C for 2 min.	10 min	Wash Buffer II 2 minutes / 74C	2min at 74Å°C	2min/73 degrees C then 1 min/Room Temp

Prepared by: John Garratt, May 24<sup>th</sup> 2017