HLDA9 Antibody Validation File

Antibody Information

Antibody name: 154
Specificity: Human BLK
Antibody species: Mouse
Ig Isotype: IgG1
Immunogen: Recombinant protein amino acids 52-167 (includes SH2 and SH3 domains)
Epitope recognized: unknown
Specificity: B cells, subset of T cells

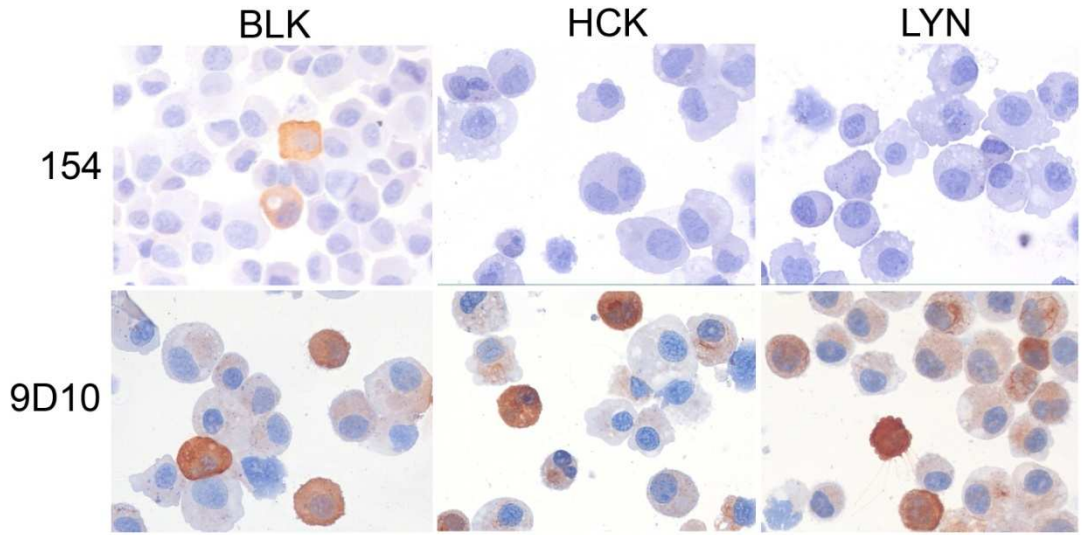
Submitted: Margaret Jones (Nuffield Department of Clinical Laboratory Sciences, Oxford, UK)

Antibody validation data

Validation of BLK monoclonal antibody in transfected cells (Figure 1)

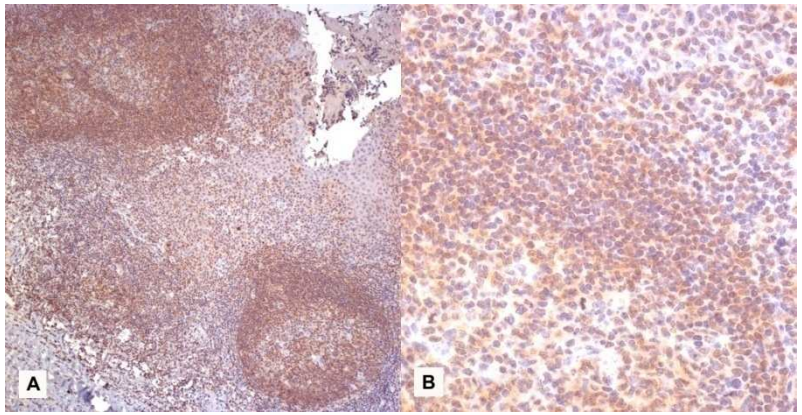
Expression in reactive human paraffin tonsil and thymus (Figure 2)

Figure 1: Validation of BLK monoclonal antibody in transfected cells.

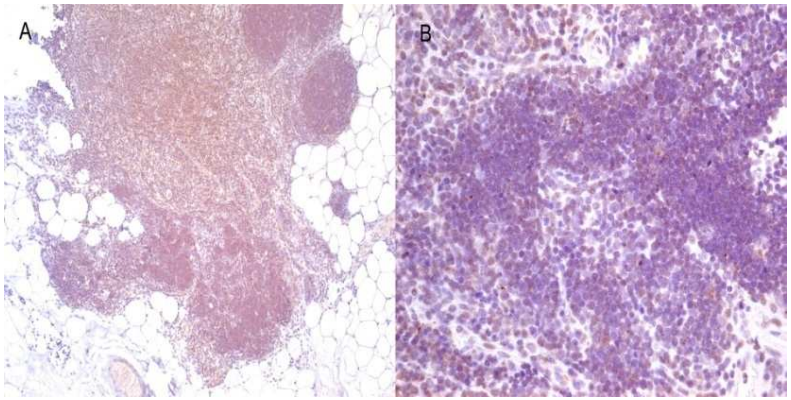


The src family of non-receptor tyrosine kinases show a great deal of homology BLK, HCK and LYN showed homology in the region of the protein used to generate antibody 154. We therefore tested our BLK antibody on transfectants for all three proteins together with the commercially available anti BLK monoclonal 9D10. (see above). 154 recognises only BLK but the commercial antibody recognises all three and is therefore nott specific for BLK.

Figure 2: BLK expression in reactive tonsil and thymus



Tonsil low power A and high power B



Thymus low power A and high power B

B lymphoid kinase was originally described in mouse and was considered to be restricted to B cells. Memory B cells and plasma cells do not express BLK (see above).
BLK expression has now been reported in thymocytes (see above)and in cases of cutaneous T cell lymphoma. The lymphoma studies were carried out using a polyclonal antibody which does stain transfectants in a specific manner but does not appear to western blot.

Publications using antibody BLK: None with 154 as yet

Patents: None

Antibody licensed to: Unlicenced as yet