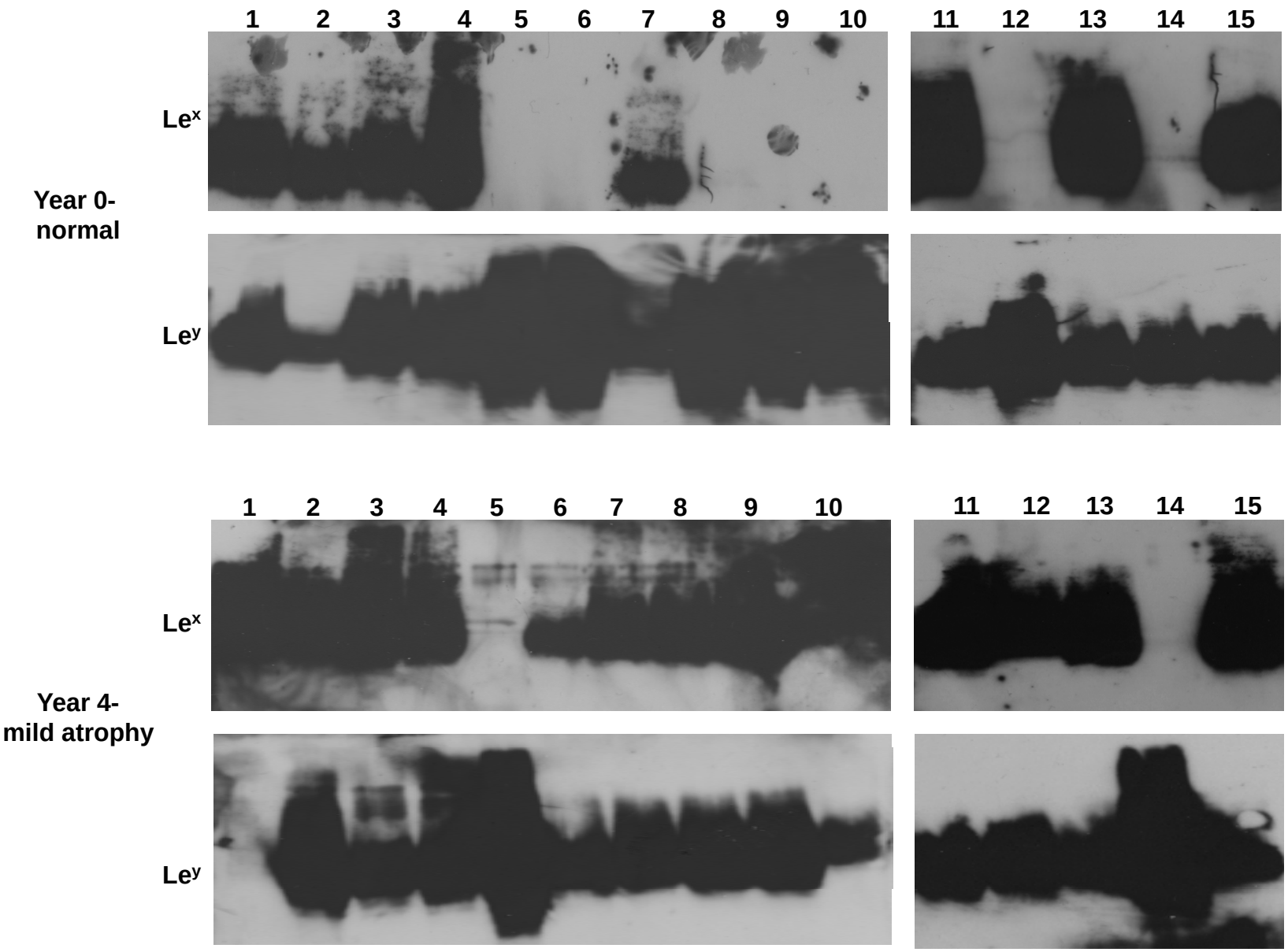
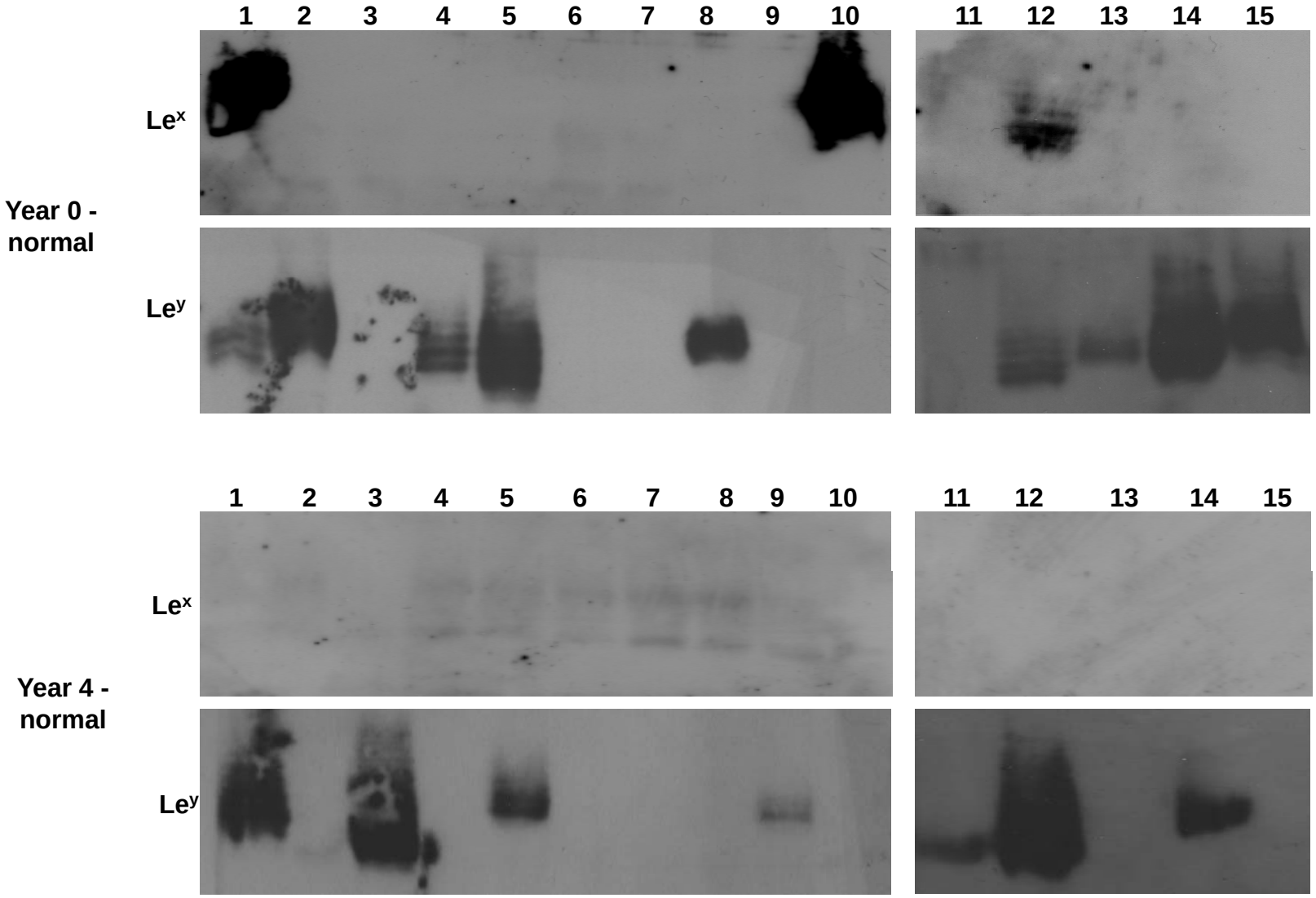
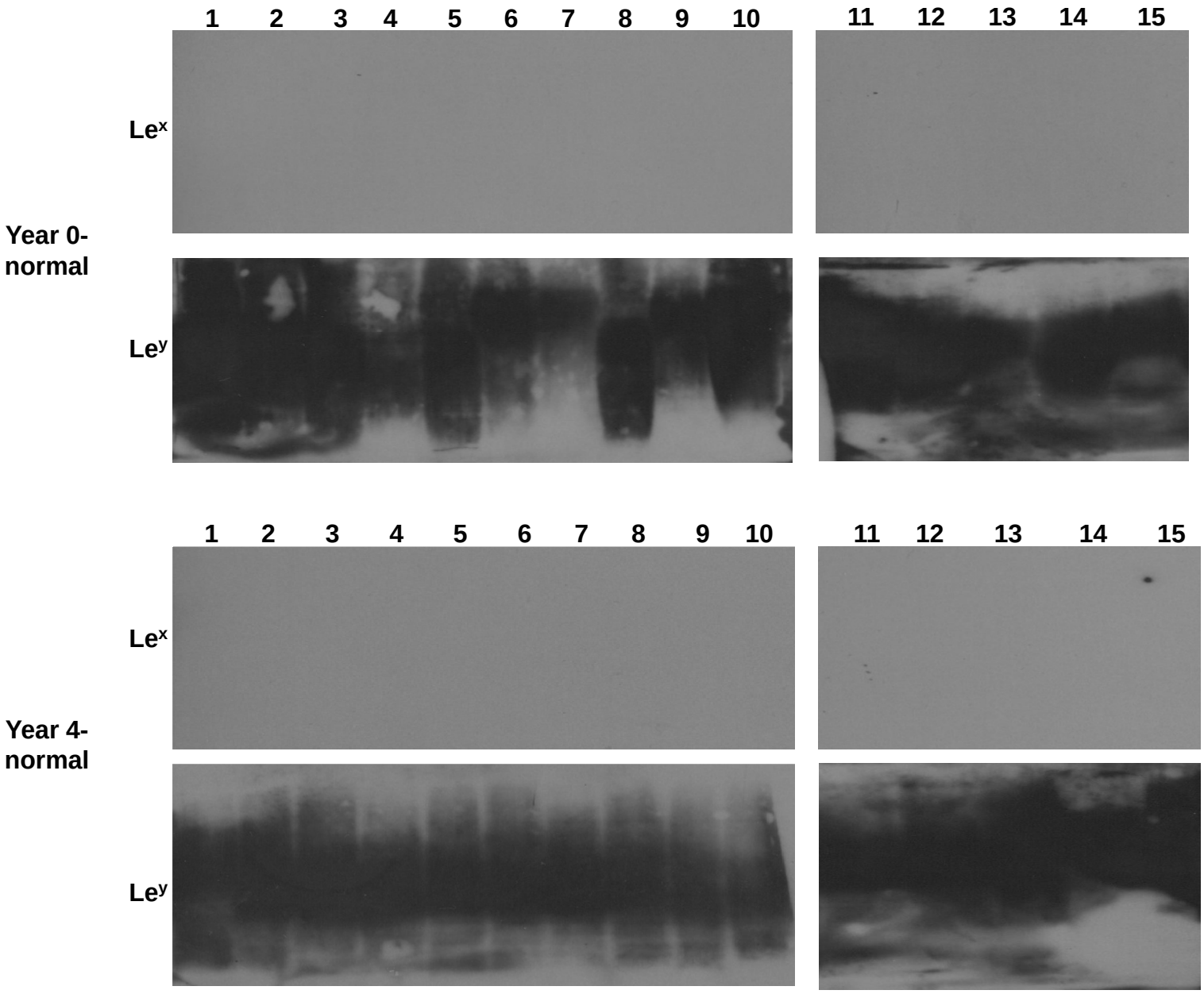
Kx201


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 0-
normal
Ley
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 4-
mild atrophy
Ley

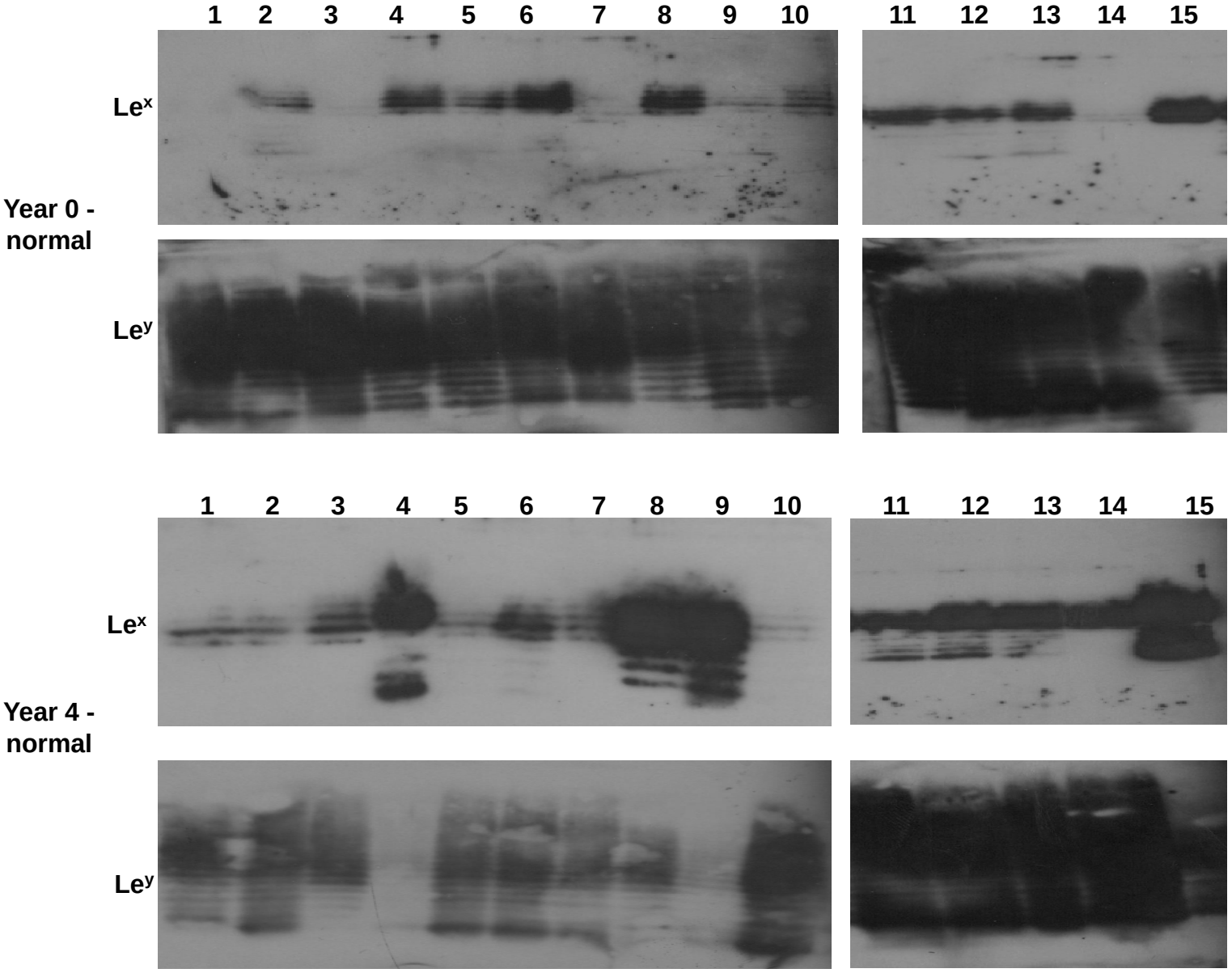
Kx208


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 0 - normal
Le^x
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 4 - normal
Le^x
Le^y

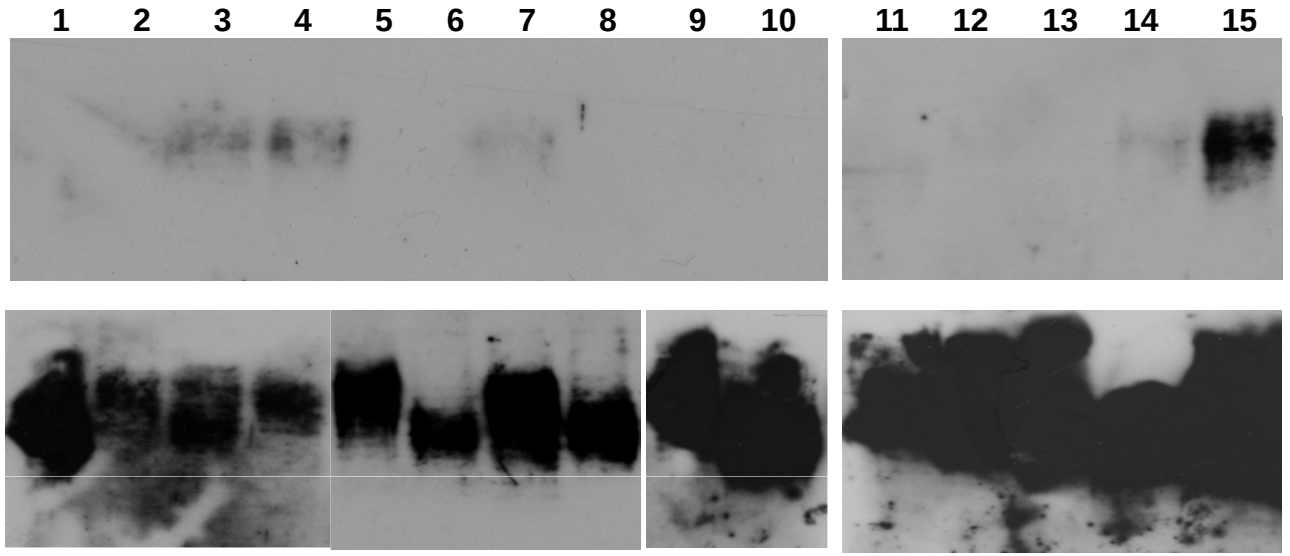
Kx239


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Ley
Year 0-normal
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Ley
Year 4-normal

Kx364


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Le^x
Year 0 - normal
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Le^x
Year 4 - normal
Le^y

Kx439

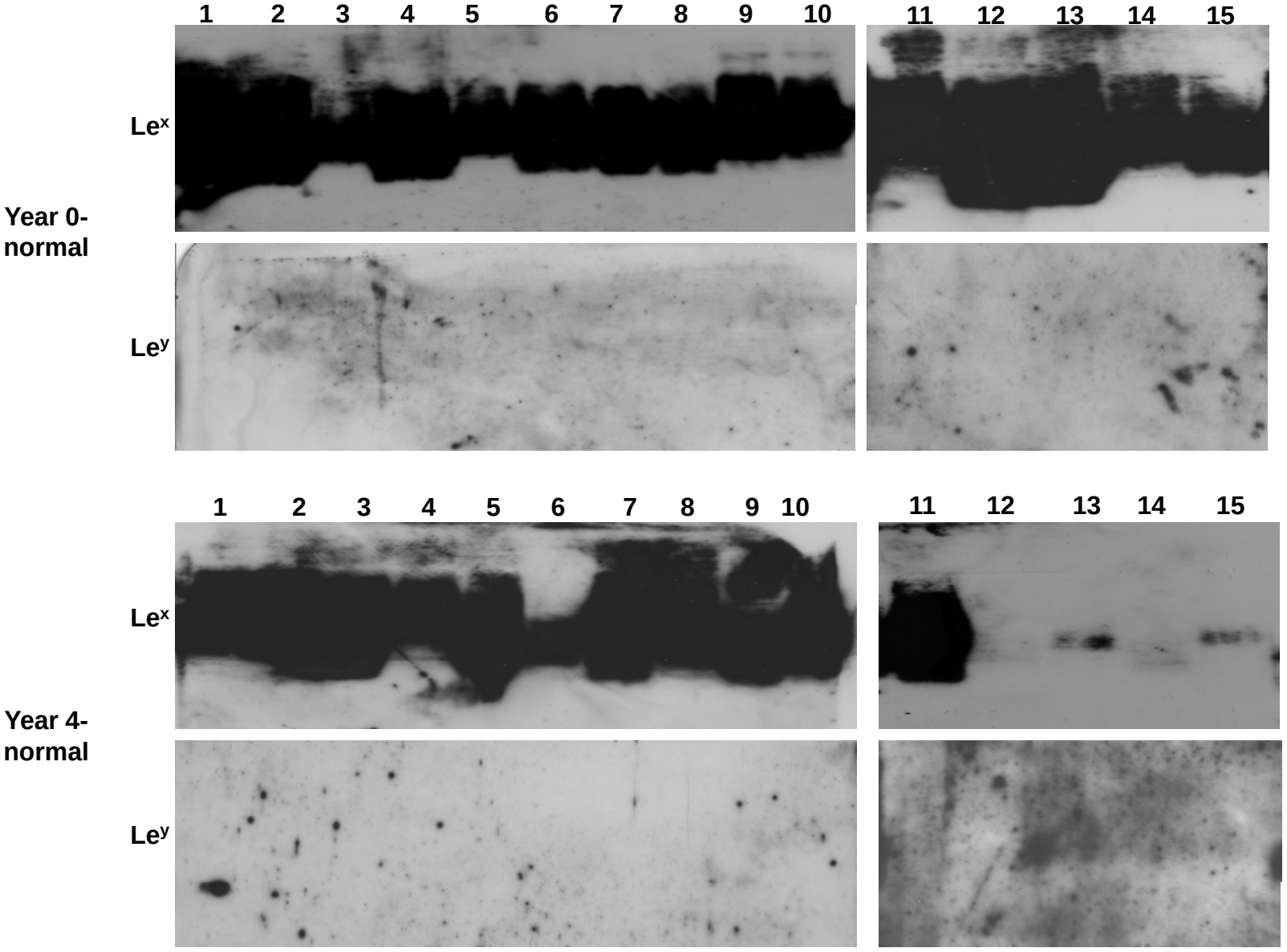


Year 0 - mild atrophy

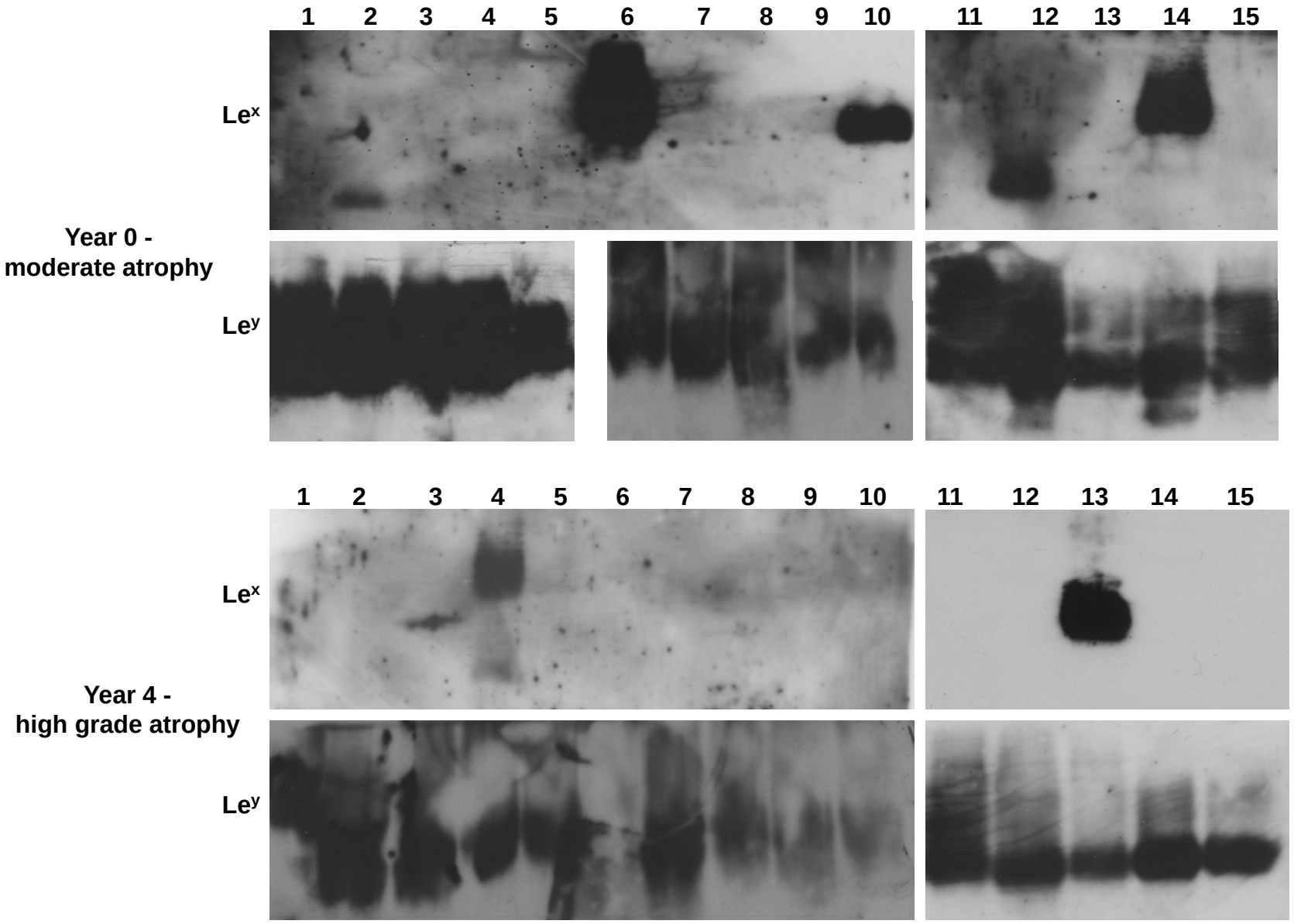
Year 4 - high grade atrophy

No isolates available from year 4

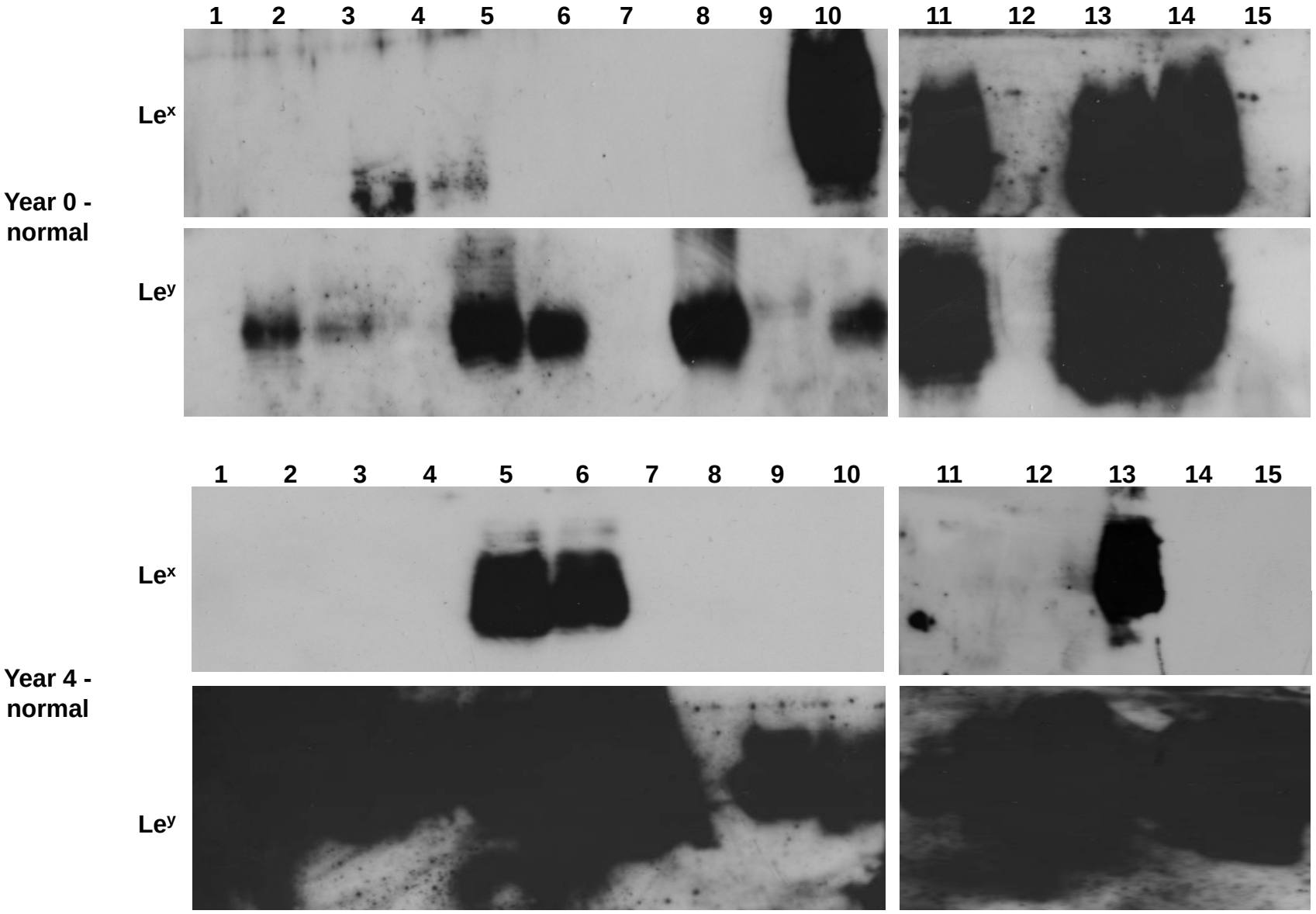
Kx491


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 0-normal
Ley
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 4-normal
Ley

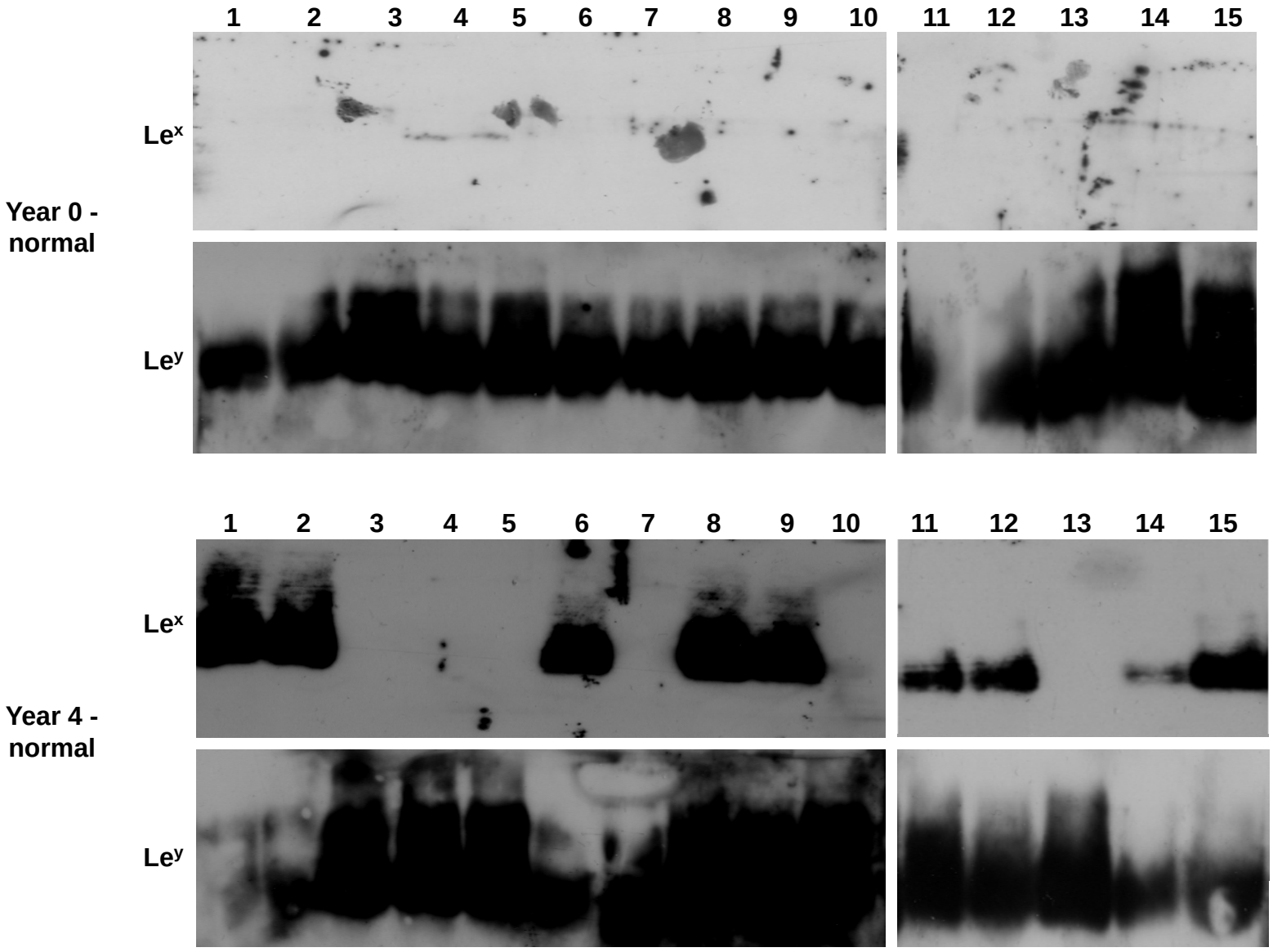
Kx533

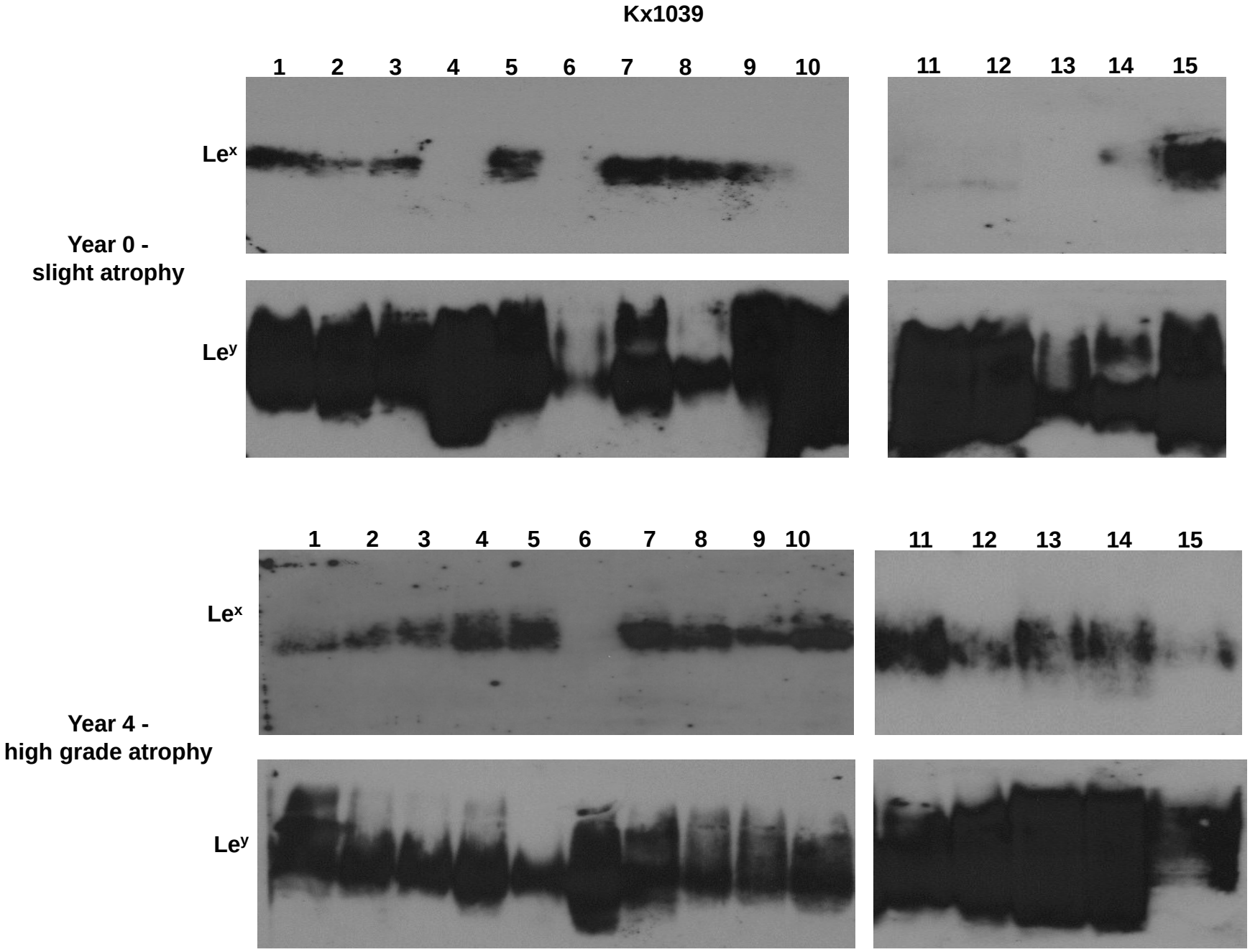

1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 0 -
moderate atrophy
Ley
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 4 -
high grade atrophy
Ley

Kx573

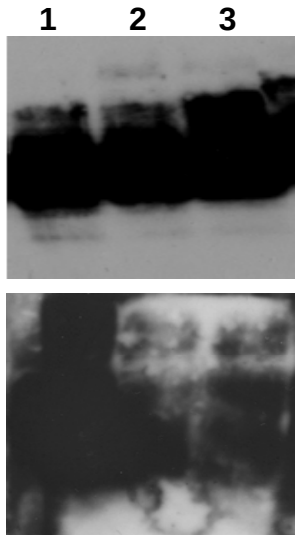

1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 0 - normal
Ley
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Lex
Year 4 - normal
Ley

Kx595


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Lex
Ley
Year 0 - normal
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Lex
Ley
Year 4 - normal

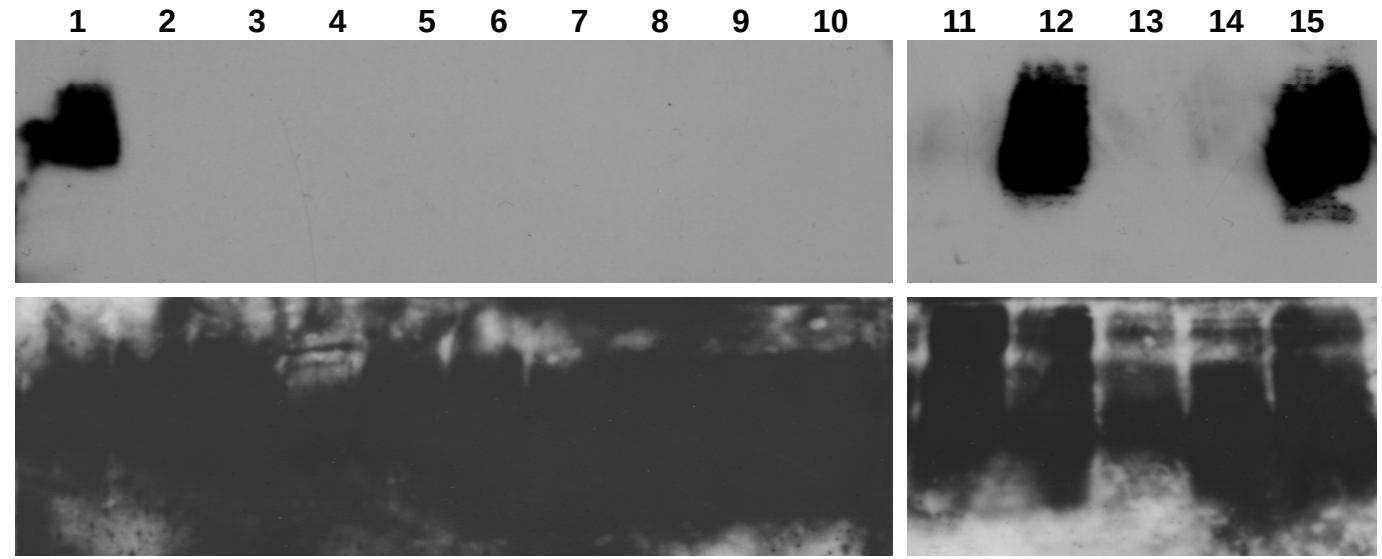

Kx1039
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 0 -
slight atrophy
Le^x
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 4 -
high grade atrophy
Le^x
Le^y

Kx1167



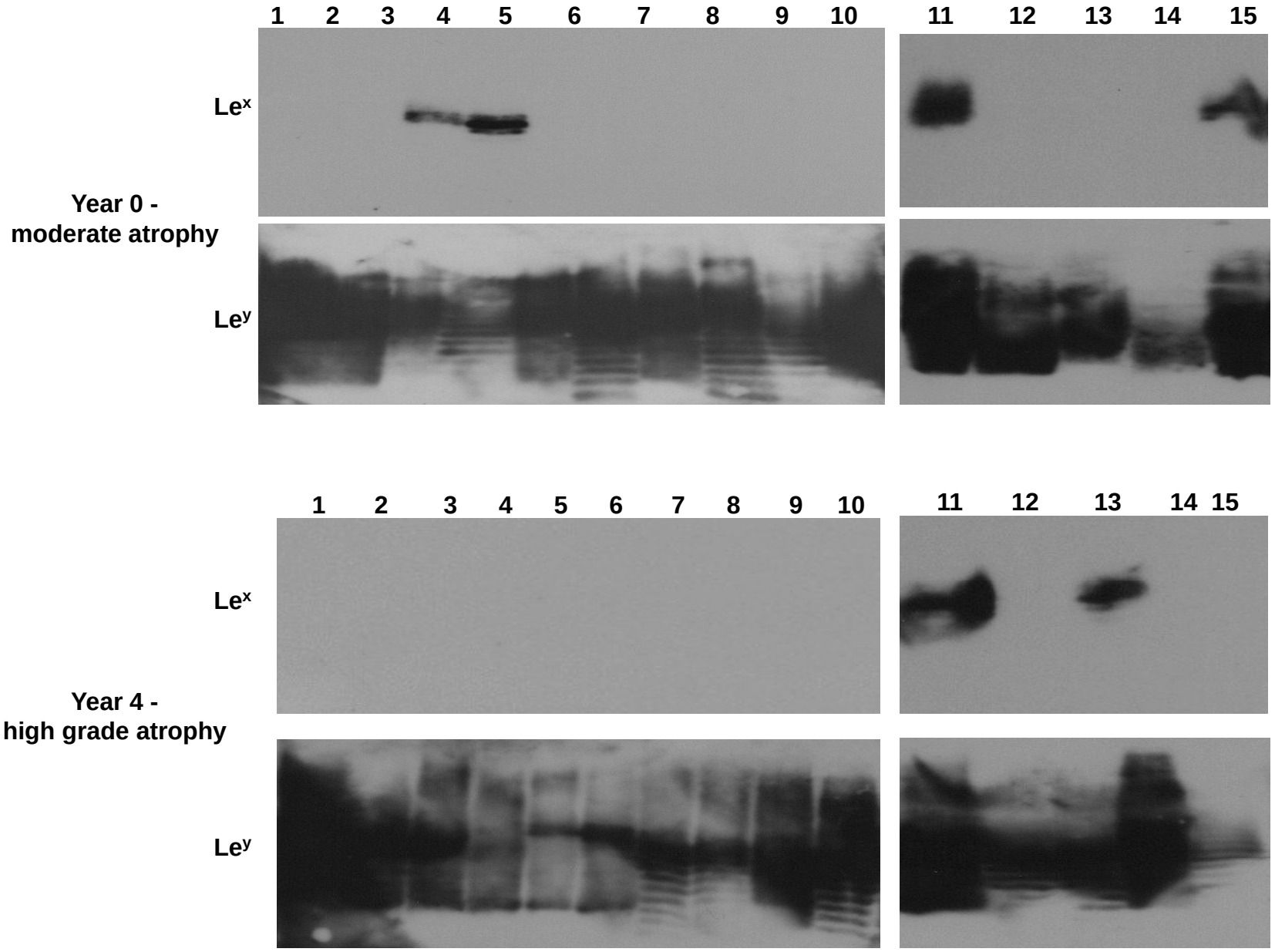
Year 0 - moderate atrophy

Only 3 isolates available from year 0

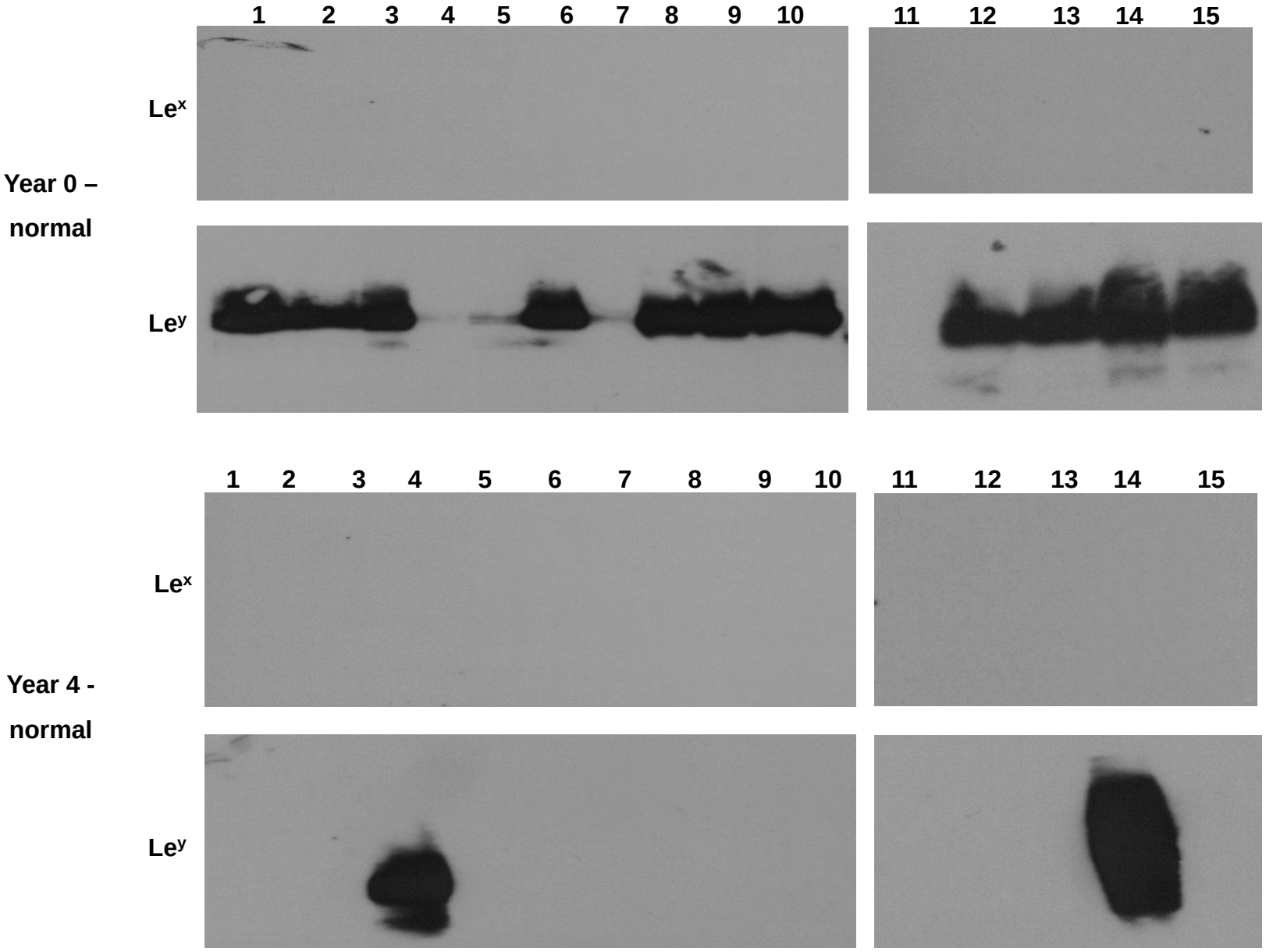


Year 4 - high gradeatrophy

Kx1172


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Le^x
Year 0 -
moderate atrophy
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Le^x
Year 4 -
high grade atrophy
Le^y

Kx1259


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 0 – normal
Le^x
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Year 4 - normal
Le^x
Le^y

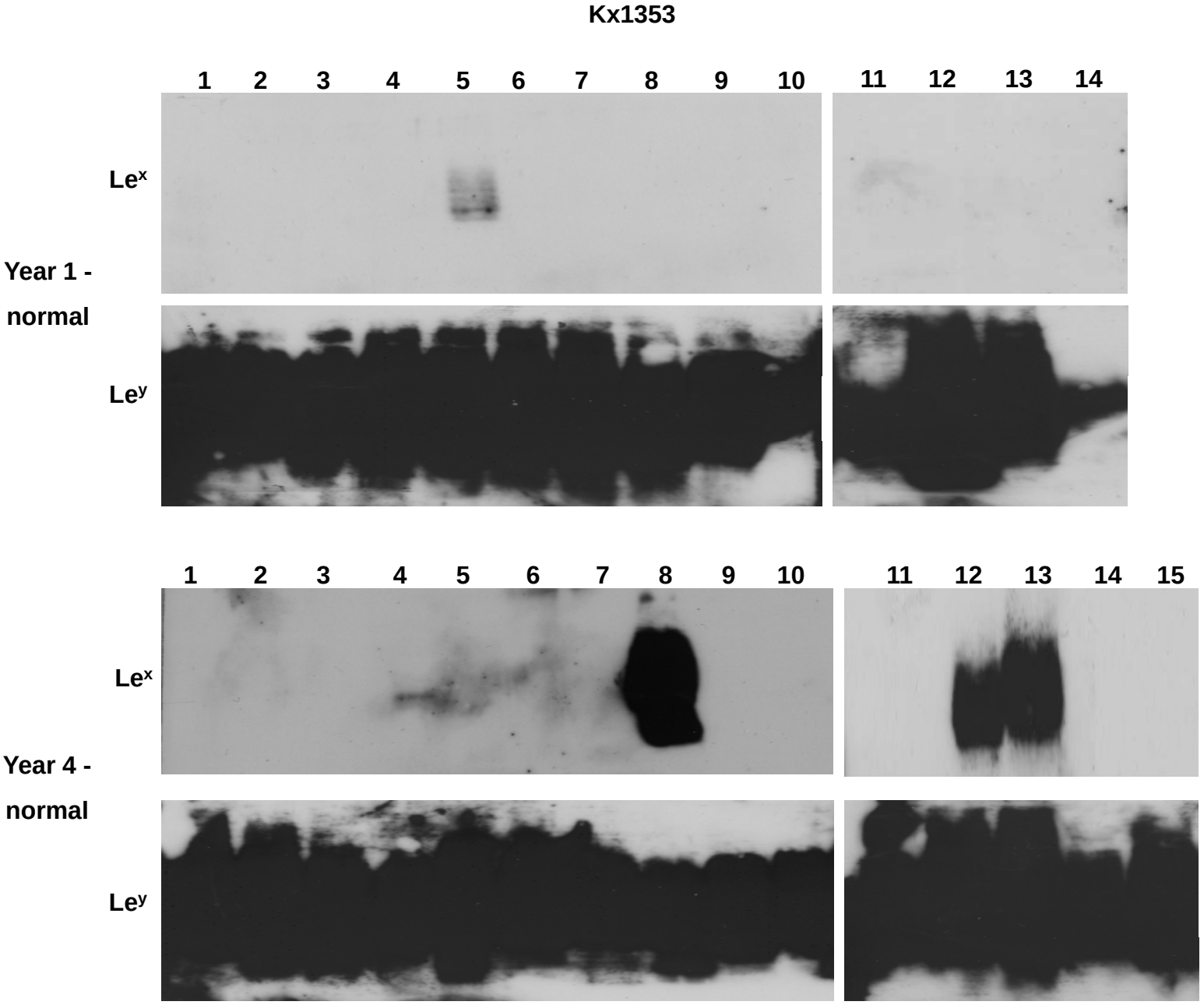

Kx1353
1 2 3 4 5 6 7 8 9 10
11 12 13 14
Le^x
Year 1 -
normal
Le^y
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15
Le^x
Year 4 -
normal
Le^y

Fig. S1. Lewis antigen expression in clinical *H. pylori* isolates shows large intra-individual diversity.
Fifteen single-colony isolates from each individual and time point were obtained. Immunoblot analysis with antibodies detecting $Le^x$and Le^y antigens showed considerable intra-strain diversity of Lewis epitopes within individuals, however the Lewis antigen expression was stable over the four-year period in both normal as well as in atrophic individuals. Lewis antigen expression levels, pattern of Lewis antigen glycosylation and the sizes of O-antigen chains that were fucosylated, also varied among isolates obtained from the same individual. The most common LPS phenotype was Le^y, either alone, or in combination with Le^x, whereas the least common was Le^x exclusively.