Human Rat Mouse Dog Cow Sheep Chicken	MAQPYPPAQYPPPPQNGIPAEYAPPPHPTQDYSGQTPVPTEHGMTLYTPAQTHPEQPGS MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTQDYSGQTPVPPEHGMTLYTPAQTHPEQPGT MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTQDYSGQTPVPPEHGMTLYTPAQTHPEQPGT MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTQDYSGQTPVPPEHGMTLYTPAQTHPEQPGS MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTDYSGQTPVPPEHGMTLYTPAQTHPEQPSS MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTDYSGQTPVPPEHGMTLYTPAQTHPEQPSS MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTDYSGQTV-PEHAMTLYTPAQSHAEQPGS ************************************	60 60 60 60 60 59
Human Rat Mouse Dog Cow Sheep Chicken	EASTQPIAGTQTVPQTDEAAQTDSQPIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEASTQPIAGTQTVPQADEAAQTDSQQIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEASTQPIAGTQTVPQADEAAQTDNQQIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEASTQPIAGAQTVPT-DEAAQTDSQPIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEASTQPITGAQTVPQTDEAAQTDSQPIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEDTSTQPITGAQTVPQTDEAAQTDSQPIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEDTSPQPITGAQTVPQTDEAAQTDSQPIHPSDPTEKQQPKRIHVSNIPERBRDPDIRQMEGEDASTQSIAGTQTVPQTDEAAQTDSQQIHSSDNTDKQQPKRIHVSNIPERBRDPDIRQMEGEC::* * *:::****************************	120 120 120 119 120 120 119
Human Rat Mouse Dog Cow Sheep Chicken	QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN QEGKILDVEIIENERGSKGEGEVTEETSSDADRAREKLNGTIVEGRKIEVNNATARVMTN ************************************	180
Human Rat Mouse Dog Cow Sheep Chicken	KKTGNPYTNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKPGNPYANGWKLNPVVGAVYGPEFYAVTSEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKPGNPYANGWKLNPVVGTVYGPEFYAVTSEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYSNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYTNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYTNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYTNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYTNGWKLNPVVGAVYGPEFYAVTGEPYPTTGTAVAYRGAHLRGRGRAVYNTERA KKTANPYTNGWKLNPVVGAVYGPEFYAVTGEPYPATGTAVAYRGAHLRGRGRAVYNTERA	240 240 239
Human Rat Mouse Dog Cow Sheep Chicken	APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAAAAAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-TAAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH APPPPPIPTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAA-AAAYSDSYGRVYAAADPYH	300 299 297 298 298
Human Rat Mouse Dog Cow Sheep Chicken	HTIGPAATYSIGTM 312 HTIGPTATYSIGTM 314 HTIGPTATYSIGTM 313 HTIGPAATYSIGTM 311 HTIGPAATYSIGTM 312 HTIGPAATYSIGTM 312 HTIGPAATYSIGTM 312 HTIGPAATYSIGTM 311 *****:******************************	

Alignment of FOX3 sequences from several species.

The FOX3 protein contains a central RNA recognition motifs (RRM, highlighted in green) at the indicated position which is identical in all species above and also almost identical in the related FOX1 and FOX2 proteins. The EnCor MCA-1B7 antibody was raised against a recombinant construct of the first 99 amino acids of human FOX3, and the epitope for this antibody is as shown above in yellow, mapping close to the N-terminal of the molecule, a proline rich region of low sequence complexity. We found that the original NeuN antibody, Millipore A60, binds to the same peptide, confirming data presented by others. Kinetic studies show that our antibody has a Kd of 2.69 X 10-9, significantly better than that of A60 which we measures at 7.95 X 10-9. Interestingly two other mouse FOX3 monoclonals we have made also bound this protein. A BLAST search shows the peptide is 100% conserved in hundreds of mammalian and avian sequences, so that this antibody should be of general utility. We have obtained positive results with human, rat, mouse, cow, pig, dog and horse material.