

Fig. S1. NudE and p150 bind to alternatively spliced dynein IC isoforms. *A.* Sequence alignment of both IC genes from *Rattus norvegicus* (46), showing GST-fusion constructs created in this study encoding the six IC isoforms. Alternatively spliced regions are highlighted in orange. *B.* HA-NudE or FLAG-CC1 pulled down using the GST-IC isoforms. The HA-NudE bands are distorted by the similar sized GST-IC constructs.

Fig. S2. LC8 does not affect the NudE-dynein interaction. *A.* Immunoblot of purified rat brain dynein pulled down with purified HA-NudE, which had been pre-incubated with recombinant LC8. Lane 1, HA-NudE-LC8 pull down - no dynein present; lane 2, HA-NudE - LC8 pull-down of purified dynein; Lane 3, HA-NudE pull-down of purified dynein; lane 4, beads alone. Endogenous LC8 (endo. LC8) in the purified dynein complex runs slightly faster than recombinant LC8 (rec. LC8). *B.* HA-NudE pulldown of dynein in the presence of excess LC8. Lanes 1-4, 0x, 5x, 10x, or 50x molar ratio (over NudE) of LC8; lane 5, beads alone.

Figure S1.

A

Majonty	MSDKSDLKAELEKKQLAQI REEKKRKEEERKKKEADMQQKKEPVPDSDLRKRRETEALLQSIGISPEPP.....LVPTPMSPPS	
	10 20 30 40 50 60 70 80 90 100	
IC1A	MSDKSDLKAELEKKQLAQI REEKKRKEEERKKKEADMQQKKEPVPDSDLRKRRETEALLQSIGISPEPLVQPLHFLTWDTCYFHVLVPTPMSPPS	298
IC1B	MSDKSDLKAELEKKQLAQI REEKKRKEEERKKKEADMQQKKEPVPDSDLRKRRETEALLQSIGISPEPP.....LVPTPMSPPS	247
IC1C	MSDKSDLKAELEKKQLAQI REEKKRKEEERKKKEADMQQKKEPVPDSDLRKRRETEALLQSIGISPEPP.....LVPTPMSPPS	247
Majonty	KSVSTPSEAGSQDDLGLPLTRTLQWDTDPVSLQLQSDSELGRRLNKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEEDEEEM	
	110 120 130 140 150 160 170 180	
IC1A	KSVSTPSEAGSQDDLGLPLTRTLQWDTDPVSLQLQSDSELGRRLNKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEEDEEEM	556
IC1B	KSVSTPSEAGSQDDLGLPLTRTLQWDTDPVSLQLQSDSELGRRLNKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEEDEEEM	505
IC1C	KSVSTPSEAGSQDDLGLPLTR.....RLNKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEEDEEEM	442
Majonty	MSDKSELKAELEKKQLAQI REEKKRKEEERKKKKE TDQKKEAAVSVQEE SDLEKKRREAEALLQSMGLTTDSPIV.....PPPMSPSSKSVSTPSEAG	
	10 20 30 40 50 60 70 80 90 100	
IC2A	MSDKSELKAELEKKQLAQI REEKKRKEEERKKKKE TDQKKEAAVSVQEE SDLEKKRREAEALLQSMGLTTDSPIVFSEHWVPPMSPSSKSVSTPSEAG	298
IC2B	MSDKSELKAELEKKQLAQI REEKKRKEEERKKKKE TDQKKEAAVSVQEE SDLEKKRREAEALLQSMGLTTDSPIV.....PPPMSPSSKSVSTPSEAG	280
IC2C	MSDKSELKAELEKKQLAQI REEKKRKEEERKKKKE TDQKKEAAVSVQEE SDLEKKRREAEALLQSMGLTTDSPIV.....PPPMSPSSKSVSTPSEAG	280
Majonty	SQDSGDGAVGSR TLHWDTPSALQLHSDSDLGRGPI KLGMAKI TQVDFPPREI VTYTKE TQTPVTAQPKDEEEEDDV	
	110 120 130 140 150 160 170	
IC2A	SQDSGDGAVGSR TLHWDTPSALQLHSDSDLGRGPI KLGMAKI TQVDFPPREI VTYTKE TQTPVTAQPKDEEEEDDV	532
IC2B	SQDSGDGAVGSR TLHWDTPSALQLHSDSDLGRGPI KLGMAKI TQVDFPPREI VTYTKE TQTPVTAQPKDEEEEDDV	514
IC2C	SQDSGDGAVGSR.....RGP I KLGMAKI TQVDFPPREI VTYTKE TQTPVTAQPKDEEEEDDV	454

B

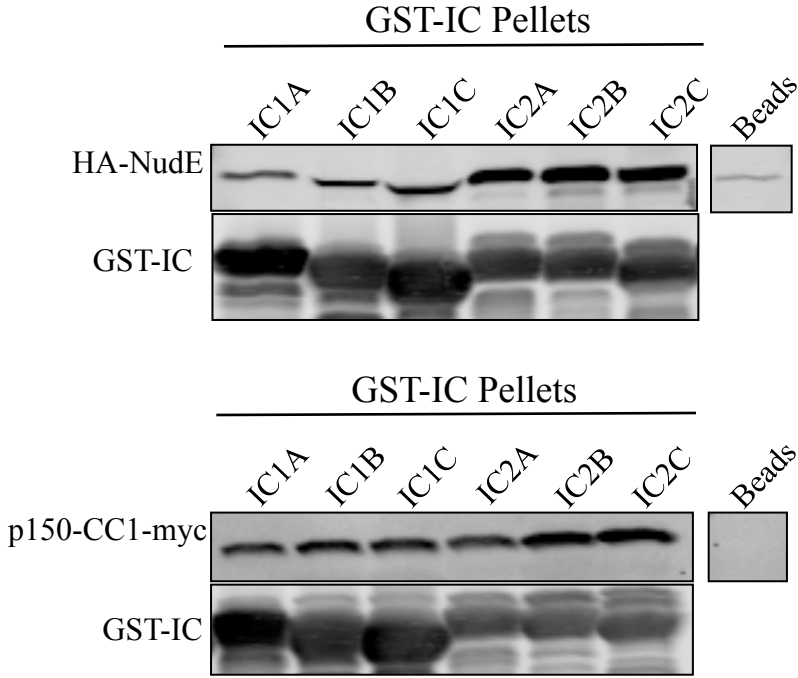


Figure S2.

