Performance of the RNB Linac at KEK-Tanashi, S. ARAI, Y. ARAKAKI, A. IMANISHI, K. NIKI, M. OKADA, Y. TAKEDA, E. TOJYO, M. TOMIZAWA, KEK - A linac for radioactive nuclear beam (RNB) has been constructed at KEK-Tanashi. The linac is a post accelerator in the ISOL-based RNB test facility. The radioactive nuclear beam extracted from the ISOL system is transported to the linac through a 60-m long beam line. The front end of the linac is a 25.5-MHz split coaxial RFQ (SCRFQ) which accelerates ions with a charge-to-mass ratio (q/A) greater than 1/30 from 2 to 172 keV/u. It is followed by a 51-MHz interdigital-H (IH) linac which accelerates ions with a q/A greater than 1/10. The output energy is variable in the range of 0.17 through 1.05 MeV/u. For examining the linac performance, we have measured transmission efficiencies, energy spectra, beam emittances, etc. Results of the beam tests show the performance of the SCRFQ/IH linac is close to the designed one.